Electro Industries / GaugeTech

"The Leader in Power Monitoring and Control"

DNP V3.00 LEVEL 2 Protocol Assignments

For Nexus® 1252, 1262, and 1272 Power Monitors

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DNP V3.00

DEVICE PROFILE DOCUMENT

This document must be accompanied by a table having the following headings:

Object Group	Request Function Codes	Response Function Codes
Object Variation	Request Qualifiers	Response Qualifiers
Object Name (optional)		

Vendor Name: **Electro Industries/GaugeTech**

Device Name: **Nexus® 1252, 1262 and 1272 Meters**

Highest DNP Level Supported:	Device Function:
For Requests **2** For Responses **2**	☐ Master **X** Slave

Notable objects, functions, and/or qualifiers supported in addition to the Highest DNP Levels Supported (the complete list is described in the attached table):

The Nexus® 1252, 1262 and 1272 meters support report by exception. The Nexus® meter scans up to 64-Binary Input, 8-Binary Counter and 64-Analog Input for any exception that has occurred.

The Nexus® 1252, 1262 and 1272 meters support Frozen Counter Event (Object 23). A Frozen Counter Event (Object 23) can be created by a Freeze Command for Object 20, if the point of Object 23 is assigned to Class 1, 2 or 3. Freeze with Time (Function Code 11, 12) is also available. Freeze with Time will allow the Nexus® meter to create Frozen Counter (Object 21) and Frozen Counter Event (Object 23) on a timely basis.

Up to 250 Frozen Counter Events can be stored in the Nexus® meter.

Maximum Data Link Re-tries:	Maximum Application Layer Re-tries:
X None ☐ Fixed at ☐ Configurable, range to	**X** None ☐ Configurable, range to (Fixed is not permitted)

Requires Data Link Layer Confirmation:

☐ Never
☐ Always
☐ Sometimes If 'Sometimes', when?

_____

X Configurable If 'Configurable', how?

_____Programmable Settings

Requires Application Layer Confirmation:

☐ Never
☐ Always (not recommended)
X When reporting Event Data (Slave devices only)
X When sending multi-fragment responses (Slave devices only)
☐ Sometimes If 'Sometimes', when?

_____

☐ Configurable If 'Configurable', how?

_____

Timeouts while waiting for:

Data Link Confirm
X None ☐ Fixed at ☐ Variable ☐ Configurable
Complete Appl. Fragment
X None ☐ Fixed at ☐ Variable ☐ Configurable
Application Confirm
X None ☐ Fixed at ☐ Variable ☐ Configurable
Complete Appl. Response
X None ☐ Fixed at ☐ Variable ☐ Configurable
Others

Attach explanation if 'Variable' or 'Configurable' was checked for any timeout.

Sends/Executes Control Operations:

WRITE Binary Outputs
X Never ☐ Always ☐ Sometimes ☐ Configurable
SELECT/OPERATE
☐ Never **X** Always ☐ Sometimes ☐ Configurable

DIRECT OPERATE

☐ Never **X** Always ☐ Sometimes ☐ Configurable

DIRECT OPERATE - NO ACK

☐ Never **X** Always ☐ Sometimes ☐ Configurable

Count > 1

X Never ☐ Always ☐ Sometimes ☐ Configurable

Pulse On

X Never ☐ Always ☐ Sometimes ☐ Configurable

Pulse Off

X Never ☐ Always ☐ Sometimes ☐ Configurable

Latch On

☐ Never **X** Always ☐ Sometimes ☐ Configurable

Latch Off

☐ Never **X** Always ☐ Sometimes ☐ Configurable

Queue

X Never ☐ Always ☐ Sometimes ☐ Configurable

Clear Queue

X Never ☐ Always ☐ Sometimes ☐ Configurable

Attach explanation if 'Sometimes' or 'Configurable' was checked for any operation.

FILL OUT THE FOLLOWING ITEM FOR MASTER DEVICES ONLY:

Expects Binary Input Change Events:

☐ Either time-tagged or non-time-tagged for a single event

☐ Both time-tagged and non-time-tagged for a single event

☐ Configurable (attach explanation)

FILL OUT THE FOLLOWING ITEMS FOR SLAVE DEVICES ONLY:	
Reports Binary Input Change Events when no specific variation requested: ☐ Never ☐ Only time-tagged ☐ Only non-time-tagged **X** Configurable to send both, one or the other (attach explanation)	Reports time-tagged Binary Input Change Events when no specific variation requested: ☐ Never **X** Binary Input Change With Time ☐ Binary Input Change With Relative Time ☐ Configurable (attach explanation)
Sends Unsolicited Responses: **X** Never ☐ Configurable (attach explanation) ☐ Only certain objects ☐ Sometimes (attach explanation) ☐ ENABLE/DISABLE UNSOLICITED Function codes supported	Sends Static Data in Unsolicited Responses: **X** Never ☐ When Device Restarts ☐ When Status Flags Change No other options are permitted.
Default Counter Object/Variation: ☐ No Counters Reported **X** Configurable (attach explanation) ☐ Default Object Default Variation ☐ Point-by-point list attached	Counters Roll Over at: ☐ No Counters Reported **X** Configurable (attach explanation) ☐ 16 Bits ☐ 32 Bits ☐ Other Value _____ ☐ Point-by-point list attached
Sends Multi-Fragment Responses: **X** Yes ☐ No	

CHAPTER 2
DNP3 Protocol Primer

In this chapter, you'll find an informative and thorough document that describes DNP for all levels of user. Some of the topics discussed include:

- What is DNP?
- Client-server relationship.
- Common system architectures.
- Data transmission.
- Event classification.
- DNP function.

We hope you'll find the information helpful in your use of DNP.

A DNP3 Protocol Primer

This is a primer for people who want a quick understanding of DNP3 without having to comb through the tedious details of a complex specification.

So let us start with what it is. Protocols define the rules by which devices talk with each other, and DNP3 is a protocol for transmission of data from point A to point B using serial communications. It has been used primarily by utilities like the electric companies, but it operates suitably in other areas.

A typical electric company may have a centralized operations center that monitors the state of all the equipment in each of its substations. In the operations center, a powerful computer stores all of the incoming data and displays the system for the human operators. Substations have many devices that need monitoring (are circuit breakers opened or closed?), current sensors (how much current is flowing?) and voltage transducers (what is the line potential?). That only scratches the surface; a utility is interested in monitoring many parameters, too numerous to discuss here. The operations personnel often need to switch sections of the power grid into or out of service. One or more computers are situated in the substation to collect the data for transmission to the master station in the operations center. The substation computers are also called upon to energize or de-energize the breakers and voltage regulators.

DNP3 provides the rules for substation computers and master station computers to communicate data and control commands. DNP3 is a non-proprietary protocol that is available to anyone. Only a nominal fee is charged for documentation, but otherwise it is available worldwide with no restrictions. This means a utility can purchase master station and substation computing equipment from any manufacturer and be assured that they will reliably talk to each other. Vendors compete based upon their computer equipment's features, costs and quality factors instead of who has the best protocol. Utilities are not stuck with one manufacturer after the initial sale.

What do the computers talk about? The substation computer gathers data for transmission to the master as

1. Binary input data that is useful to monitor two-state devices. For example a circuit breaker is closed or tripped or a pipeline pressure alarm shows normal or excessive.
2. Analog input data that conveys voltages, currents, power, reservoir water levels and temperatures.
3. Count input data that reports kilowatt hours of energy.
4. Files that contain configuration data.

The master station issues control commands that take the form of

1. Close or trip a circuit breaker, raise or lower a gate, and open or close a valve.
2. Analog output values to set a regulated pressure or set a desired voltage level.

Other things the computers talk to each other about are synchronizing the time and date, sending historical or logged data, waveform data, and on and on.

DNP3 was designed to optimize the transmission of data acquisition information and control commands from one computer to another. It is not a general purpose protocol for transmitting hypertext, multimedia or huge files.

The terms server and client are applicable to DNP3 systems. For our purposes, the definition of a server is a device or software process that has data or information that someone else wants. Substation computers are servers. A client is a device or software process that requests data from a server. A master station is a client.

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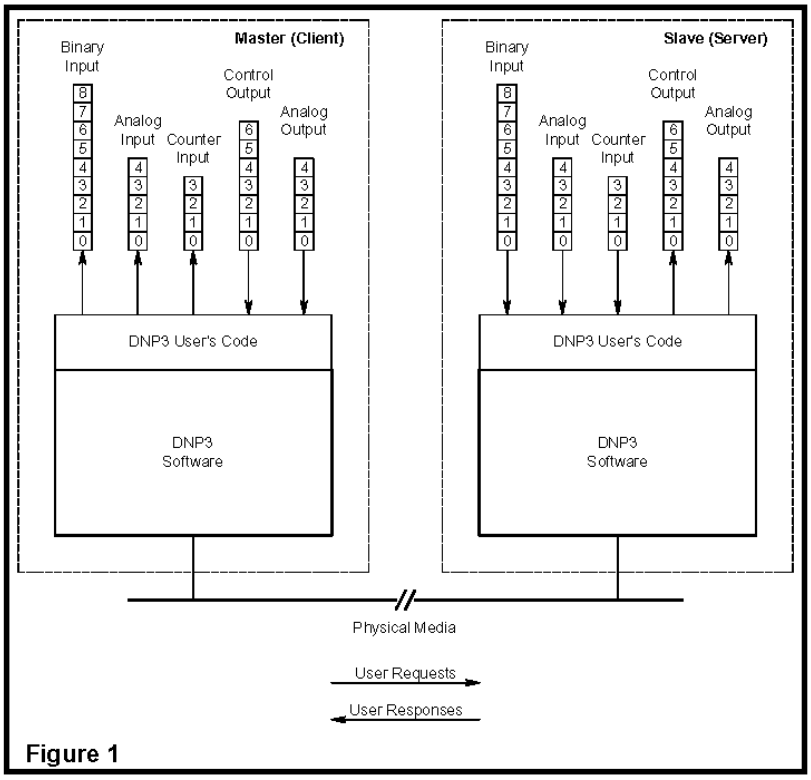


Figure 1

Figure 1 shows the client-server relationship and gives a simplistic view of the databases and software processes involved. The master or client is on the left side of figure 1, and the slave or server is on the right side.

A series of square blocks at the top of the server depicts its databases and output devices. The various data types are conceptually organized as arrays. An array of binary input values represents states of physical or logical boolean devices. Values in the analog input array represent input quantities that the server measured or computed. An array of counters represents count values, such as kilowatt hours, that are ever increasing (until they reach a maximum and then roll over to zero and start counting again.) Control outputs are organized into an array representing physical or logical on-off, raise-lower and trip-close points. Lastly, the array of analog outputs represents physical or logical analog quantities such as those used for setpoints.

The elements of the arrays are labeled 0 through N - 1 where N is the number of blocks shown for the respective data type. In DNP3 terminology, the element numbers are called the point indexes. Indexes are zero-based in DNP3, that is, the lowest element is always identified as zero. Some protocols use 1-based indexing.

Notice that the DNP3 client, or master, also has a similar database for the input data types (binary, analog and counter.) The master, or client, uses values in its database for the specific purposes of displaying system states, closed-loop control, alarm notification, billing, and much, much more. An objective of the client is to keep its database updated. It accomplishes this by sending requests to the server (slave) asking it to return the values in the server's database. This is termed polling. The server responds to the client's request by transmitting the contents of its database. Arrows are drawn at the bottom of figure 1 showing the direction of the requests (toward the server) and the direction of the responses (toward the client.) Later we will discuss systems whereby the slaves transmit responses without being asked.

The client and the server shown in figure 1 each have two software layers. The top layer is the DNP3 user layer. In the client, it is the software that interacts between the database and initiates the requests for the server's data. In the server, it is the software that fetches the requested data from the server's database for responding to client requests. It is interesting to note, that if no physical separation of the client and server existed, eliminating the DNP3 might be possible by connecting these two upper layers together. However, since physical, or possibly logical separation of the client and server exists, DNP3 software is placed at a lower level. The DNP3 user's code uses the DNP3 software for transmission of requests or responses to the matching DNP3 user's code at the other end.

More will be said about data types and software layers later, but first we want to examine a few typical system architectures where DNP3 is used.

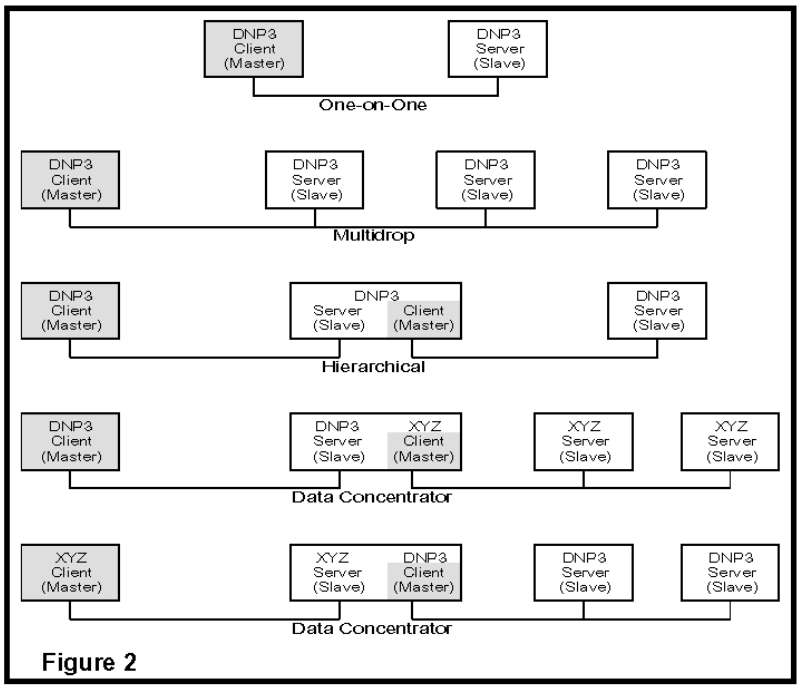


Figure 2

Figure 2 shows common system architectures in use today. At the top is a simple one-on-one system having one master station and one slave. The physical connection between the two is typically a dedicated or dial-up telephone line.

The second type of system is known as a multidrop design. One master station communicates with multiple slave devices. Conversations are typically between the client and one server at a time. The master requests data from the first slave, then moves onto the next slave for its data, and continually interrogates each slave in a round robin order. The communication media is a multi-dropped telephone line, fiber optic cable, or radio. Each slave can hear messages from the master and is only permitted to respond to messages addressed to itself. Slaves may or may not be able to hear each other.

In some multidrop forms, communications are peer-to-peer. A station may operate as a client for gathering information or sending commands to the server in another station. And then, it may change roles to become a server to another station.

The middle row in figure 2 shows a hierarchical type system where the device in the middle is a server to the client at the left and is a client with respect to the server on the right. The middle device is often termed a sub-master.

Both lines at the bottom of figure 2 show data concentrator applications and protocol converters. A device may gather data from multiple servers on the right side of the figure and store this data in its database where it is retrievable by a master station client on the left side of the figure. This design is often seen in substations where the data concentrator collects information from local intelligent devices for transmission to the master station.

In recent years, several vendors have used TCP/IP to transport DNP3 messages in lieu of the media discussed above. Link layer frames, which we have not talked about yet, are embedded into TCP/IP packets. This approach has enabled DNP3 to take advantage of Internet technology and permitted economical data collection and control between widely separated devices.

Many communication circuits between the devices are imperfect. They are susceptible to noise and signal distortion.

The DNP3 software is layered to provide reliable data transmission and to effect an organized approach to the transmission of data and commands. Figure 3 shows the layering that was not shown in figure 1.

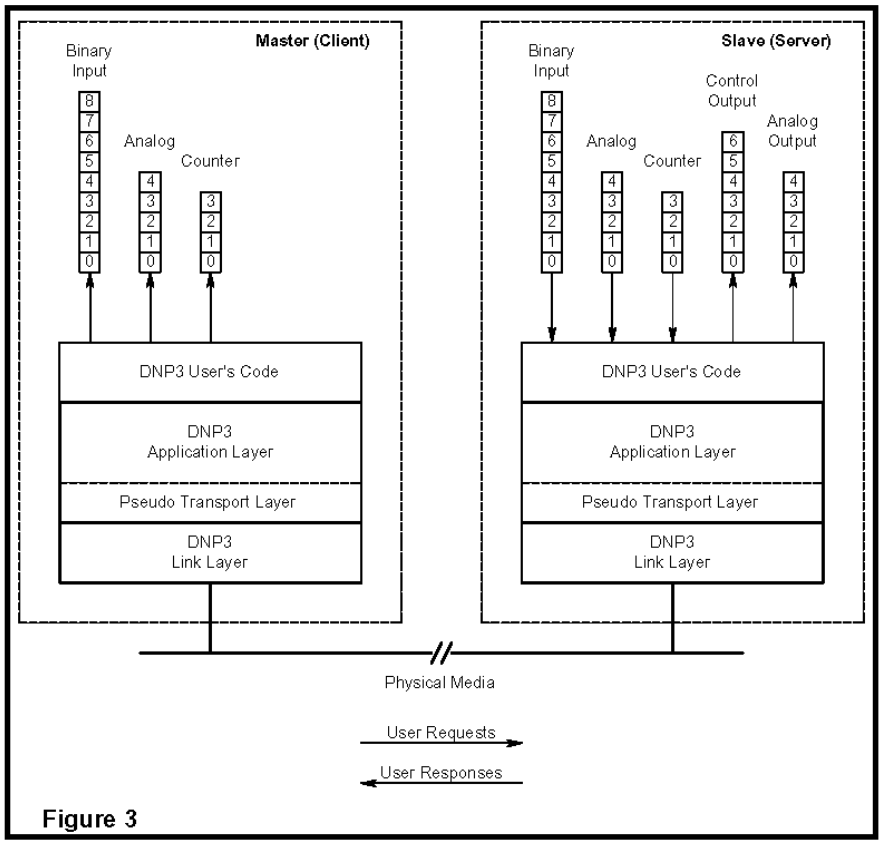


Figure 3

The link layer has the responsibility of making the physical link reliable. It does this by providing error detection and duplicate frame detection. The link layer sends and receives packets, which in DNP3 terminology, are called frames.

Sometimes transmission of more than one frame is necessary to transport all of the information from one device to another.

A DNP3 frame consists of a header and data section. The header specifies the frame size, which DNP3 station should receive the frame, which DNP3 device sent the frame and data link control information. The data section is commonly called the payload and contains the data passed down from the layers above.

DNP3 Frame

Header	Data

Header

Sync	Length	Link Control	Destination Address	Source Address	CRC

Every frame begins with two sync bytes that help the receivers determine where the frame begins. The length specifies the number of octets in the remainder of the frame, not including CRC check octets. The link control octet is used between sending and receiving link layers to coordinate their activities.

A destination address specifies which DNP3 device should process the data, and the source address identifies which DNP3 device sent the message. Having both destination and source addresses satisfies at least one requirement for peer-to-peer communications because the receiver knows where to direct its responses. 65520 individual addresses are available. Every DNP3 device must have a unique address within the collection of devices sending and receiving messages to and from each other. Three destination addresses are reserved by DNP3 to denote an all-call message; that is, the frame should be processed by all DNP3 devices. Thirteen addresses are reserved for special needs in the future.

The data payload in the link frame contains a pair of CRC octets for every 16 data octets. This provides a high degree of assurance that communication errors can be detected. The maximum number of octets in the data payload is 250, not including CRC octets. (The longest link layer frame is 292 octets if all the CRC and header octets are counted.)

One often hears the term “link layer confirmation” when DNP3 is discussed. A feature of DNP3's link layer is the ability for the transmitter of the frame to request the receiver to confirm that the frame arrived. Using this feature is optional, and it is often not employed. It provides an extra degree of assurance of reliable communications. If a confirmation is not received, the link layer may retry the transmission. Some disadvantages are the extra time required for confirmation messages and waiting for multiple timeouts when retries are configured.

It is the responsibility of the transport layer to break long messages into smaller frames sized for the link layer to transmit, or when receiving, to reassemble frames into the longer messages. In DNP3 the transport layer is incorporated into the application layer. The transport layer requires only a single octet within the message to do its work. Therefore, since the link layer can handle only 250 data octets, and one of those is used for the transport function, then each link layer frame can hold as many as 249 application layer octets.

Application layer messages are broken into fragments. Fragment size is determined by the size of the receiving device’s buffer. It normally falls between 2048 and 4096 bytes. A message that is larger than a one fragment requires multiple fragments. Fragmenting messages is the responsibility of the application layer.

Note that an application layer fragment of size 2048 must be broken into 9 frames by the transport layer, and a fragment size of 4096 needs 17 frames. Interestingly, it has been learned by experience that communications are sometimes more successful for systems operating in high noise environments if the fragment size is significantly reduced.

The application layer works together with the transport and link layers to enable reliable communications. It provides standardized functions and data formatting with which the user layer above can interact. Before functions, data objects and variations can be discussed, the terms static, events and classes need to be covered.

In DNP3, the term static is used with data and refers to the current value. Thus static binary input data refers to the present on or off state of a bi-state device. Static analog input data contains the value of an analog at the instant it is transmitted. One possibility DNP3 allows is requesting some or all of the static data in a slave device.

DNP3 events are associated with something significant happening. Examples are state changes, values exceeding some threshold, snapshots of varying data, transient data and newly available information. An event occurs when a binary input changes from an on to an off state or when an analog value changes by more than its configured deadband limit. DNP3 provides the ability to report events with and without time stamps so that the client can generate a time sequence report.

The user layer can direct DNP3 to request events. Usually, a client is updated more rapidly if it mostly polls for events from the server and only occasionally asks for static data as an integrity measure. The reason updates are faster is because the number of events generated between server interrogations is small and, therefore, less data must be returned to the client.

DNP3 goes a step further by classifying events into three classes. When DNP3 was conceived, class 1 events were considered as having higher priority than class 2 events, and class 2 were higher than class 3 events. While that scheme can be still be configured, some DNP3 users have developed other strategies more favorable to their operation for assigning events into the classes. The user layer can request the application layer to poll for class 1, 2 or 3 events or any combination of them.

DNP3 has provisions for representing data in different formats. Examination of analog data formats is helpful to understand the flexibility of DNP3. Static, current value, analog data can be represented by variation numbers as follows:

1. A 32-bit integer value with flag,
2. A 16-bit integer value with flag,
3. A 32-bit integer value,
4. A 16-bit integer value,
5. A 32-bit floating point value with flag and
6. A 64-bit floating point value with flag.

   The flag referred to is a single octet with bit fields indicating whether the source is on-line, value contains a restart value, communications are lost with the source, the data is forced and the value is over range.

Not all DNP3 devices can transmit or interpret all six variations. Later, DNP3 levels are discussed, but for now, suffice it to say that DNP3 devices must be able to transmit the simplest variations so that any receiver can interpret the contents.

Event analog data can be represented by these variations:

1. A 32-bit integer value with flag,
2. A 16-bit integer value with flag,
3. A 32-bit integer value with flag and event time,
4. A 16-bit integer value with flag and event time,
5. A 32-bit floating point value with flag,
6. A 64-bit floating point value with flag,
7. A 32-bit floating point value with flag and event time and
8. A 32-bit floating point value with flag and event time.

   The flag has the same bit fields as for the static variations.

It looks like a variation one or two analog event cannot be differentiated from a variation one or two static analog value. DNP3 solves this predicament by assigning object numbers. Static analog values are assigned as object 30, and event analog values are assigned as object 32. Static analog values, object 30, can be formatted in one of 6 variations, and event analog values, object 32, can be formatted in one of 8 variations.

When a DNP3 server transmits a message containing response data, the message identifies the object number and variation of every value within the message. Object and variation numbers are also assigned for counters, binary inputs, controls and analog outputs. In fact, all valid data types and formats in DNP3 are identified by object and variation numbers. Defining the allowable objects and variations helps DNP3 assure interoperability between devices. DNP3's basic documentation contains a library of valid objects and their variations.

The client's user layer formulates its request for data from the server by telling the application layer what function to perform, like reading, and specifying which objects it wants from the server. The request can specify how many objects it wants or it can specify specific objects or a range of objects from index number X through index number Y. The application layer then passes the request down through the transport layer to the link layer that, in turn, sends the message to the server. The link layer at the server checks the frames for errors and passes them up to the transport layer where the complete message is assembled in the server's application layer. The application layer then tells the user layer which objects and variations were requested.

Responses work similarly, in that, the server's user layer fetches the desired data and presents it to the application layer that formats the data into objects and variations. Data is then passed downward, across the communication channel and upward to the client's application layer. Here the data objects are presented to the user layer in a form that is native to the client's database.

Reading data was mentioned in the above two paragraphs, but DNP3 software is designed to handle other functions. For one the client can set the time in the server. The client can transmit freeze accumulator requests, and it can transmit requests for control operations and setting of analog output values using select-before-operate or direct-operate sequences.

One area that has not been covered yet is transmission of unsolicited messages. This is a mode of operating where the server spontaneously transmits a response, possibly containing data, without having received a specific request for the data. Not all servers have this capability, but those that do must be configured to operate in this mode. This mode is useful when the system has many slaves and the master requires notification as soon as possible after a change occurs. Rather than waiting for a master station polling cycle to get around to it, the slave simply transmits the change.

To configure a system for unsolicited messages, a few basics need to be considered. First, spontaneous transmissions should generally occur infrequently, otherwise, too much contention can occur, and controlling media access via master station polling would be better. The second basic issue is that the server should have some way of knowing whether it can transmit without stepping on someone else's message in progress. DNP3 leaves specification of algorithms to the system implementor.

One last area of discussion involves implementation levels. The DNP3 organization recognizes that supporting every feature of DNP3 is not necessary for every device. Some devices are limited in memory and speed and do not need specific features, while other devices must have the more advanced features to accomplish their task. DNP3 organizes complexity into three levels. At the lowest level, level 1, only very basic functions must be provided and all others are optional. Level 2 handles more functions, objects and variations, and level 3 is even more sophisticated. Within each level only certain combinations of request formats and response formats are required. This was done to limit software code in clients and servers while still assuring interoperability.

It should be apparent by now that DNP3 is a protocol that fits well into the data acquisition world. It transports data as generic values, it has a rich set of functions, and it was designed to work in a wide area communications network. The standardized approach of objects and variations, and link, transport and application layers, plus public availability makes DNP3 a protocol to be regarded.

CHAPTER 3
Implementation Table

OBJECT			REQUEST		RESPONSE	
Obj	**Var**	**Description**	**Func Codes (dec)**	**Qual Codes (hex)**	**Func Codes (dec)**	**Qual Codes (hex)**
1	0	Binary Input - All Variations	1	00,01,02, 06		
1	1	Binary Input	1	00,01,02, 06	129	01
1	2	Binary Input with Status	1	00,01,02, 06	129	01
2	0	Binary Input Change - All Variations	1	06,07,08		
2	1	Binary Input Change without Time	1	06,07,08	129	28
2	2	Binary Input Change with Time	1	06,07,08	129	28
2	3	Binary Input Change with Relative Time	1	06,07,08		
10	0	Binary Output - All Variations	1	00,01,02, 06		
10	1	Binary Output	1	00,01,02, 06		
10	2	Binary Output Status	1	00,01,02, 06	129	01
12	0	Control Block - All Variations				
12	1	Control Relay Output Block	3, 4, 5, 6	17,28	129	echo of request
12	2	Pattern Control Block				
12	3	Pattern Mask				
20	0	Binary Counter - All Variations	1,7,8, 11,12	00,01,02, 06		
20	1	32-Bit Binary Counter	1	00,01,02, 06	129	01
20	2	16-Bit Binary Counter	1	00,01,02, 06	129	01
20	3	32-Bit Delta Counter	1	00,01,02, 06		
20	4	16-Bit Delta Counter	1	00,01,02, 06		
20	5	32-Bit Binary Counter without Flag	1	00,01,02, 06	129	01
20	6	16-Bit Binary Counter without Flag	1	00,01,02, 06	129	01

OBJECT			REQUEST		RESPONSE	
Obj	Var	Description	Func Codes (dec)	Qual Codes (hex)	Func Codes (dec)	Qual Codes (hex)
20	7	32-Bit Delta Counter without Flag	1	00,01,02, 06		
20	8	16-Bit Delta Counter without Flag	1	00,01,02, 06		
21	0	Frozen Counter - All Variations	1	00,01,02, 06	129	01
21	1	32-Bit Frozen Counter	1	00,01,02, 06	129	01
21	2	16-Bit Frozen Counter	1	00,01,02, 06	129	01
21	3	32-Bit Frozen Delta Counter	1	00,01,02, 06		
21	4	16-Bit Frozen Delta Counter	1	00,01,02, 06		
21	5	32-Bit Frozen Counter with Time of Freeze	1	00,01,02, 06	129	01
21	6	16-Bit Frozen Counter with Time of Freeze	1	00,01,02, 06	129	01
21	7	32-Bit Frozen Delta Counter with Time of Freeze	1	00,01,02, 06		
21	8	16-Bit Frozen Delta Counter with Time of Freeze	1	00,01,02, 06		
21	9	32-Bit Frozen Counter without Flag	1	00,01,02, 06	129	01
21	10	16-Bit Frozen Counter without Flag	1	00,01,02, 06	129	01
21	11	32-Bit Frozen Delta Counter without Flag	1	00,01,02, 06		
21	12	16-Bit Frozen Delta Counter without Flag	1	00,01,02, 06		
22	0	Counter Change Event - All Variations	1	06,07,08		
22	1	32-Bit Counter Change Event without Time	1	06,07,08	129	28
22	2	16-Bit Counter Change Event without Time	1	06,07,08	129	28
22	3	32-Bit Delta Counter Change Event without Time	1	06,07,08		
22	4	16-Bit Delta Counter Change Event without Time	1	06,07,08		
22	5	32-Bit Counter Change Event with Time	1	06,07,08	129	28

OBJECT			REQUEST		RESPONSE	
Obj	Var	Description	Func Codes (dec)	Qual Codes (hex)	Func Codes (dec)	Qual Codes (hex)
22	6	16-Bit Counter Change Event with Time	1	06,07,08	129	28
22	7	32-Bit Delta Counter Change Event with Time	1	06,07,08		
22	8	16-Bit Delta Counter Change Event with Time	1	06,07,08		
23	0	Frozen Counter Event - All Variations	1	06,07,08		
23	1	32-Bit Frozen Counter Event without Time	1	06,07,08	129	28
23	2	16-Bit Frozen Counter Event without Time	1	06,07,08	129	28
23	3	32-Bit Frozen Delta Counter Event without Time	1	06,07,08		
23	4	16-Bit Frozen Delta Counter Event without Time	1	06,07,08		
23	5	32-Bit Frozen Counter Event with Time	1	06,07,08	129	28
23	6	16-Bit Frozen Counter Event with Time	1	06,07,08	129	28
23	7	32-Bit Frozen Delta Counter Event with Time	1	06,07,08		
23	8	16-Bit Frozen Delta Counter Event with Time	1	06,07,08		
30	0	Analog Input - All Variations	1,7,8	00,01,02, 06		
30	1	32-Bit Analog Input	1	00,01,02, 06	129	01
30	2	16-Bit Analog Input	1	00,01,02, 06	129	01
30	3	32-Bit Analog Input without Flag	1	00,01,02, 06	129	01
30	4	16-Bit Analog Input without Flag	1	00,01,02, 06	129	01
31	0	Frozen Analog Input - All Variations	1	00,01,02, 06		
31	1	32-Bit Frozen Analog Input	1	00,01,02, 06		
31	2	16-Bit Frozen Analog Input	1	00,01,02, 06		
31	3	32-Bit Frozen Analog Input with Time of Freeze	1	00,01,02, 06		
31	4	16-Bit Frozen Analog Input with Time of Freeze	1	00,01,02, 06		
31	5	32-Bit Frozen Analog Input without Flag	1	00,01,02, 06		

OBJECT			REQUEST		RESPONSE	
Obj	Var	Description	Func Codes (dec)	Qual Codes (hex)	Func Codes (dec)	Qual Codes (hex)
31	6	16-Bit Frozen Analog Input without Flag	1	00,01,02, 06		
32	0	Analog Change Event - All Variations	1	06,07,08		
32	1	32-Bit Analog Change Event without Time	1	06,07,08	129	28
32	2	16-Bit Analog Change Event without Time	1	06,07,08	129	28
32	3	32-Bit Analog Change Event with Time	1	06,07,08	129	28
32	4	16-Bit Analog Change Event with Time	1	06,07,08	129	28
33	0	Frozen Analog Event - All Variations	1	06,07,08		
33	1	32-Bit Frozen Analog Event without Time	1	06,07,08		
33	2	16-Bit Frozen Analog Event without Time	1	06,07,08		
33	3	32-Bit Frozen Analog Event with Time	1	06,07,08		
33	4	16-Bit Frozen Analog Event with Time	1	06,07,08		
40	0	Analog Output Status - All Variations	1	00,01,02, 06		
40	1	32-Bit Analog Output Status	1	00,01,02, 06		
40	2	16-Bit Analog Output Status	1	00,01,02, 06		
41	0	Analog Output Block - All Variations	3,4,5, 6	17,28		
41	1	32-Bit Analog Output Block	3,4,5, 6	17,28		
41	2	16-Bit Analog Output Block	3,4,5, 6	17,28		
50	0	Time and Date - All Variations	1	00,01,02, 06		
50	1	Time and Date	2	07 where quantity = 1		
50	1	Time and Date	1	00, 01, 02, 06	129	01
50	2	Time and Date with Interval	2	07 where quantity = 1		

OBJECT			REQUEST		RESPONSE	
Obj	Var	Description	Func Codes (dec)	Qual Codes (hex)	Func Codes (dec)	Qual Codes (hex)
50	2	Time and Date with Interval	1	00, 01, 02, 06	129	01
51	0	Time and Date CTO - All Variations				
51	1	Time and Date CTO				
51	2	Unsynchronized Time and Date CTO				
52	0	Time Delay - All Variations				
52	1	Time Delay Coarse				
52	2	Time Delay Fine	23	07 where quantity = 1	129	01
60	0					
60	1	Class 0 Data	1	06	129	01
60	2	Class 1 Data	1	06,07,08	129	01
60	3	Class 2 Data	1	06,07,08	129	01
60	4	Class 3 Data	1	06,07,08	129	01
70	1	File Identifier				
80	1	Internal Indications	2	00 index = 4, 7		
81	1	Storage Object				
82	1	Device Profile				
83	1	Private Registration Object				
83	2	Private Registration Object Descriptor				
90	1	Application Identifier				
100	1	Short Floating Point				
100	2	Long Floating Point				
100	3	Extended Floating Point				
101	1	Small Packed Binary-Coded Decimal				
101	2	Medium Packed Binary-Coded Decimal				
101	3	Large Packed Binary-Coded Decimal				
		No object (Cold Restart)	13			

CHAPTER 4
Time Synchronization

The Nexus® meter supports Time Synchronization using DNP protocol. Using the Device Profile's programmable settings, the Nexus® meter can be configured to request Time Synchronization from the DNP Master. Requests can be made at intervals from once per minute to once per day. Optionally, the meter can be configured to **never** request Time Synchronization.

CHAPTER 5
DNP Mapping Configuration

5.1: Static Objects

The Nexus® meter can be programmed to select which readings are mapped to DNP Static Points. Static Points are always returned in Class 0 Polls. The Nexus® meter supports the following Static Point configurations:

- Up to 64 readings can be mapped to Static Binary Input points (Object 1). Selectable and configurable in 8 groups of 8 points, selections for these points include Static Inputs and Limit States.

- 16 relays and 8 resets are mapped to Static Binary Output points (Object 10). Individually configurable, these points represent up to 16 relays and 8 resets that a Nexus® meter can control. These points support operations using Control Relay Output Block points (Object 12).

- Up to 8 readings may be mapped to Static Binary Counter points (Object 20). Individually selectable and configurable, selections for these points include Energy (Wh, VARh and VAh), by Quadrant and by Sign, in Primary and Secondary. Configuration of Binary Counter points includes customizable scaling by powers of 10.

- Up to 64 readings may be mapped to Static Analog Input points (Object 30). Individually selectable and configurable, selections for these points include Voltage, Current, Power and Harmonic values.

5.2: Frozen Points

The Nexus® meter supports the Freeze Command. When a Static point is frozen, its value is copied to a Frozen Point. Frozen Points are returned in Class 0 poll. Freeze commands are supported for the following Object:

- Static Binary Counter points (Object 20) produce Frozen Binary Counter points (Object 21). Immediate Freeze (Function Code 7), Immediate Freeze/No-Ack (Function Code 9), Freeze with Time (Function Code 11) and Freeze with Time/No-Ack (Function Code 12) are supported.

5.3: Change and Events Points (Report by Exception)

Static Points are monitored for changes over time. If a significant change occurs, Change or Change Event points may be recorded. Change and Change Event points can be configured to be returned in Class 1, 2 or 3 polls. The scan time for all points is one second except Tenth Second Readings. Changes and Change Events are supported for the following Objects:

- Transitions in Static Binary Input points (Object 1) produce Binary Input Change points (Object 2).

- Static Binary Counter points (Object 20), which change by more than a programmable value, produce Counter Change Event points (Object 22).

- Static Analog Input points (Object 30), which change by more than a programmable percentage, produce Analog Change Event points (Object 32).

Whenever Static points are frozen, Frozen Event points may be recorded. Frozen Event points can be Configured to be returned in Class 1, 2 or 3. Frozen Events are supported for the following Objects:

- Static Binary Counter points (Object 20) produce Frozen Counter Event points (Object 23).

The Nexus® meter can record up to 250 Event Data points.

5.4: Control Relay Output Block

16 relays and 8 resets are mapped to Static Binary Output points (Object 10). Individually configurable, these points represent up to 16 relays and 8 resets that a Nexus® meter can control. These points support operations using Control Relay Output Block points (Object 12). Select (Function 3), Operate (Function 4), Direct Operate (Function 5) and Direct Operate/No-Ack (Function 6) functions are supported.

The Nexus® meter supports control of one relay at a time.
Latch On (Control Code 3) and Latch Off (Control Code 4) control codes are supported.

CHAPTER 6
Customizing DNP V3.0 Configuration Using Communicator EXT

A Nexus® meter can measure more than 3000 DNP Static Points, but not all points can be polled at a time. In order for the meter to have the appropriate data, the user should customize the DNP Point Map. This can be done easily using Communicator EXT software. Up to 250 points of Event Data can be created in the Nexus® meter.

6.1: Connecting to Communicator EXT

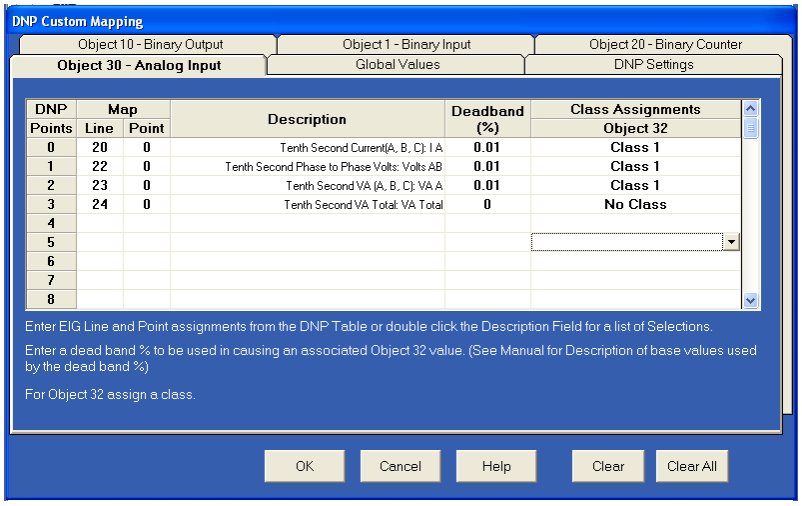
1. Open Communicator EXT software by double-clicking on its icon or selecting **Start/Programs/Electro Industries/Communicator EXT**.

2. Connect to the meter:
   Click on **Quick Connect**, check the settings and click **Connect** (or)
   Click on **Connection Manager**, select a location and click **Connect**.

   See Chapter 2 of the *Communicator EXT User's Manual* for complete connection instructions.

3. Once a connection is made, a Status Bar appears, showing a Healthy status. Click **OK**.

4. Click the **Profile** icon. A pop-up window tells you that data is being retrieved. When the **Device Profile** screen displays, click **General Settings/DNP Custom Classes Map/DNP Level 2**. A set of programming screens appears: these are the **DNP Custom Mapping** screens. The tabs at the at the top of the screen allow you to select the specific screen you want.



6.2: Analog Input (Object 30)

A Nexus® meter can use up to 64 Analog Input points. Values available for Analog Input use can be found in the Nexus® DNP Object Mapping (Chapter 7 of this manual). Only Class 0 is used when polling Analog Input (Object 30) Data. Class 1, 2 or 3 is used when polling Analog Change Event (Object 32) Data.

Line, Point, Description
Double-click on the box under Description. A window will appear. Choose a type of data and a channel and click **OK**. The corresponding numbers for the selected data and channel will appear in the Line and Point columns. Line and Point Numbers can also be found in the DNP Object Mapping (Chapter 7 of this manual).

For example, *One Second Phase A-N Voltage* is EIG Line Number 34 and Point Number 0 in the DNP Object Mapping. Write these numbers into the Object 30 – Analog Input window of the Communicator EXT screen. When the Line and Point Numbers are written, the software will fill in the description. Repeat for each desired Analog Input Point. Click **OK** to return to the main Communicator EXT screen. Click **Update Device** to update the meter.

The Nexus® meter scans those points every second (except for *Tenth Second Readings*). *Tenth Second Readings* (Line 18 to 32) are scanned as soon as the meter detects a change (as often as every 50 milliseconds).

Deadband (%), Object 32
Any DNP Static Point can be configured to create DNP Event Points. Deadband and Class Assignments on the Object 32 screen are used to configure Analog Change Event Points. In order to create Event Data, Object 32 Points must be assigned to Class 1, 2 or 3. Each point can have a different Class assignment.

Deadband (%) will define the boundary value for that point. For example, suppose *One Second Phase to Neutral Volts AN* is programmed and the *Voltage Full Scale* is 120.00V for the meter. Entering 10% for Deadband will define the boundary value of 12V (10% of 120V). Every second, new Static Data is scanned for *One Second Phase to Neutral Volts AN*. If the new data is different from the previous standard value by the boundary value, an Analog Change Event will be created.

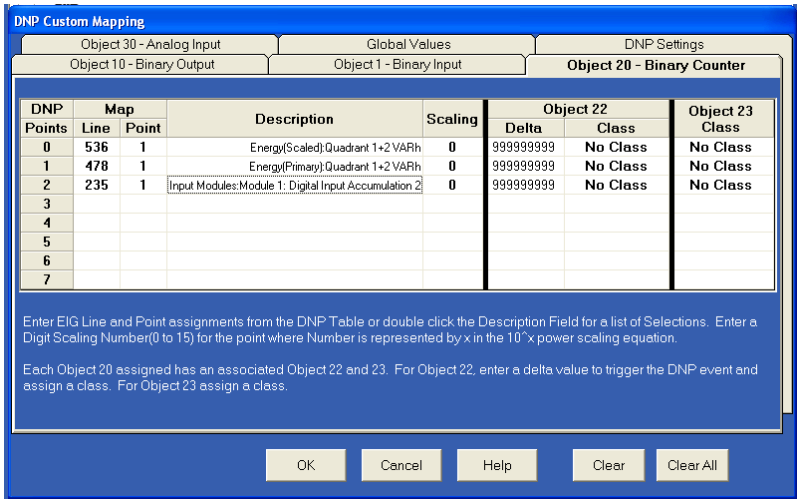
For example, if the previous standard value is 110 and new data is lower than 98V or higher than 122V, a new Analog Change Event Point will be created. The new value then becomes the previous standard value for future scans.

Analog Input Points have various Full Scales values due to different data types (Volts, Amps, Watts, etc.). These Full Scale values are used for Exception Polling in DNP. Some Full Scale values are programmable by users and others have fixed numbers.

Full Scale values are 4-byte integer numbers.
The units are as follows:

Analog Input	Full Scale	Unit
I A, B, C, Nc	Programmable	1/65536 Amps
I Nm	Programmable	1/65536 Amps
V AN, BN, CN	Programmable	1/65536 Volts
V AB, BC, CA	Programmable	1/65536 Volts
V Aux	Programmable	1/65536 Volts
Power Phase	Programmable	1/65536 Watts
Power Total	Programmable	1/65536 Watts
Frequency	Programmable	1/65536 Hz
Power Factor	4000	0.001 PF
Angles	18000	0.001 PF
Percent	10000	0.01 %
K-Factor	500	0.01
TOU Ratio	N/A	N/A
Temperature	10000	0.01
Flicker	65536	0.0001
In Interval	1000	1000
Day of Week	6	1
Sequence	1	1
Status	100	1
Ave Select	100	1
Delay	100	1
Log Index	100	1
Countdown	100	1

For example, in order to find out if there is new log data, use a Log Index Number. One of the Log Index Numbers (Last Index) will increase when a new log is created. In Object 30, Program Last Log Record Index: Waveform Log (Line 499, Point 7). Input Deadband 1.00% and assign a Class. The exception data will be created when the Index Number increases by one.



6.3: Binary Counter (Object 20)

A Nexus® meter can use up to 8 Binary Counter Points. Values available for Binary Counter use can be found in the DNP Object Mapping (Chapter 7 of this manual). Only Class 0 is used when polling Binary Counter (Object 20) Data and Frozen Counter (Object 21) Data. Class 1, 2 or 3 is used when polling Counter Event (Object 22) Data and Frozen Counter Event (Object 23) Data.

Line, Point, Description

Double-click on the box under Description. A window will appear. Choose a type of data and a channel and click **OK**. The corresponding numbers for the selected data and channel will appear in the Line and Point columns. Line and Point Numbers can also be found in the DNP Object Mapping (Chapter 7 of this manual).

For example, *VA hour* has Line Number 133 and Point Number 0 in the DNP Object Mapping. Write those numbers into the Object 20- Binary Counter window of Communicator EXT. When the Line and Point Numbers are written, the software fills in the description on the screen. Repeat for each desired Binary Counter Point. **Update** the device. The Nexus® meter scans the selected points every second.

Scaling

A Nexus® meter can measure its Binary Counter value using up to a 16-digit number (0 to 9,999,999,999,999,999). DNP Binary Counter Points use up to 32 bits. That means that the range is 0 to 4,294,967,295 (0x0FFFFFFFF). This maximum number is only a 10-digit number. In order to deal with a 16-digit number, Scaling is necessary.

Scaling is used to select a unit in powers of 10: 1 = x10, 2 = x100 and so on. The Scaling value can be 0 to 15.

For example, if the value inside the meter is 3,000,000 and a Scaling value of 2 (x100) is used, the Binary Counter value will be reported as 30000. The actual value is 30000x100 = 3,000,000.

Delta, Object 22

Any DNP Static Point can be configured to create DNP Event Points. Delta and Class Assignments on the Object 22 screen are used to configure Counter Change Event Points. In order to create Event Data, Object 22 must be assigned to Class 1, 2 or 3. Each point can have a different Class Assignment.

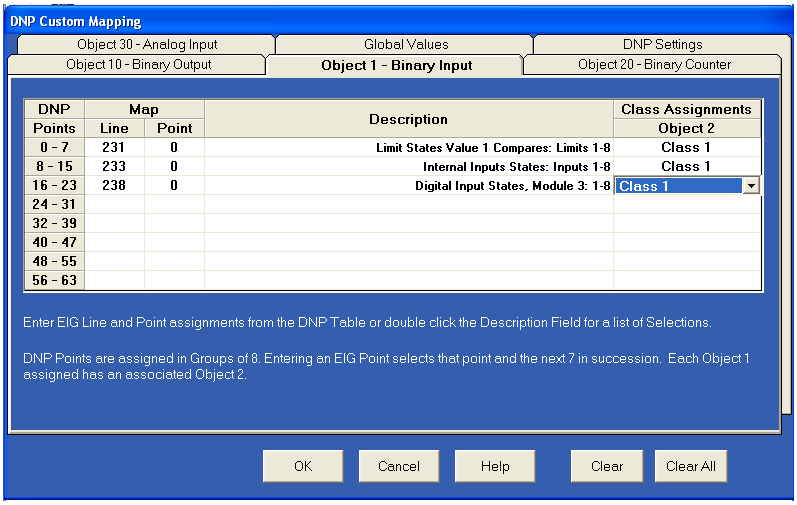
The Delta value defines the boundary value for that point.

For example, suppose *VA hour* is programmed and the Delta is 5. That represents 5 increments from the returned 32-bit Binary Counter value. Every second, new Static Data is scanned for *VA hour*. If new data is different from the previous standard value by the Delta value, the Counter Change Event Data will be created. That means, if the previous standard polled value is *50000 VA hour* and if the VA hour reading increases to 50005, it will create a Counter Change Event Point for *VA hour* and *50005 VA hour* will become the previous standard value for the next Static Data.

The Scaling setting for a point also applies to the Delta value. If Delta is 5 and Scaling is 2, this indicates a 500-count change in the internal representation.

Object 23

Frozen Analog Event (Object 23) will be created if Object 23 is assigned to Class 1, 2 or 3.



6.4: Binary Input (Object 1)

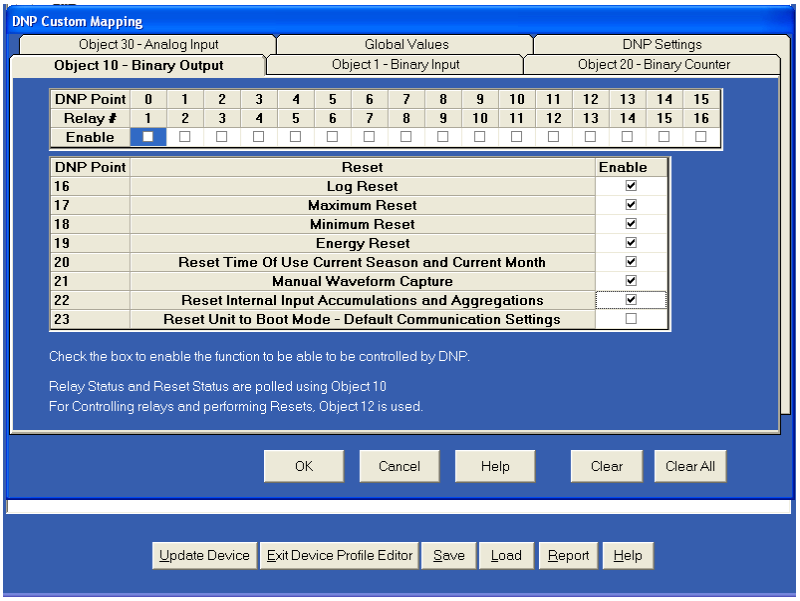
A Nexus® meter can use up to 64 Binary Input Points. Values available for Binary Input use can be found in the DNP Object Mapping (Chapter 7 of this manual). Only Class 0 is used when polling Binary Input (Object 1) Data. Class 1, 2 or 3 is used when polling Binary Input Change (Object 2) Data.

Line, Point, Description
Double-click on the box under Description. A window will appear. Choose a type of data and a channel and click **OK**. The corresponding numbers for the selected data and channel will appear in the Line and Point columns. Line and Point Numbers for a Binary Input value can also be found in the DNP Object Mapping (Chapter 7 of this manual).

For example, *1 Cycle High Speed Input Delta and Current State* has Line Number 16 and Point Number 0 in the DNP Object Mapping. Write those numbers into the Object 1 – Binary Input window of Communicator EXT. When the Line and Point Numbers are written, the software fills in the description on the screen. Repeat for each desired Binary Input Point. **Update** the device.The Nexus® meter scans the selected points every second.

Object 2
Any DNP Static Point can be configured to create a DNP Event Points. Class Assignments on the Object 2 screen are used to configure Binary Input Change Event Points. In order to create Event Data, Object 2 Points must be assigned to Class 1, 2 or 3.

Each point can have a different Class Assignment.



6.5: Binary Output (Object 10)

Class 0 is used when polling Binary Output (Object 10) Data.
External Relay Output Modules can be attached to the Nexus® meter. Up to 4 Relay Output Modules can be attached and each Relay Module has 4 Relay Outputs.

To allow control of a relay by DNP, check its box. If unchecked, the relay will not be controlled by DNP. The Master in DNP protocol can control 16 relays. In order to do that, each relay box should be checked and the Nexus® meter should be updated with this profile.

Example 1 - The Master can control Relay 1 by sending this message (Meter Address 1, Master Address 10):

05 64

18 C4 01 00 0A 00 6C 1A
C0

C0 05
06
01 17 01
00 03 01 01 00 00 00 00 00 3B EF 00 00 00 FF FF

Example 2 – The Master can control Relay 2 by sending this message:

05 64

18 C4 01 00
0A 00 6C 1A
C0

C1 05
0C
01 17 01
01 03 01 01 00 00 00 00 00 E2 5F 00 00 00 FF FF

The Master not only controls relays but also can do various resets. Each box should be checked in order for the Master to do the reset.

Example 3 – The Master can do a Log Reset by sending this message:

05 04

18 C4 01 00 0A 00 6C 1A
C0

C2 05
0C
01 17 01
10 03 01 01 00 00 00 00 00 C5 1B 00 00 00 FF FF

Example 4 – The Master can do an Energy Reset by sending this message:

05 04

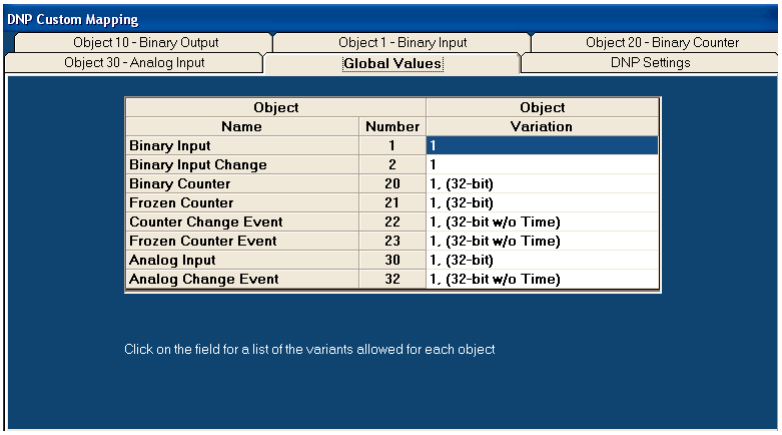
18 C4 01 00 0A 00 6C 1A
C0

C3 05
0C
01 17 01
13 03 01 01 00 00 00 00 00 E7 5B 00 00 00 FF FF

NOTE: All above examples are done with Function 5 (Direct Operate Relay) using Qualifier 0x17.

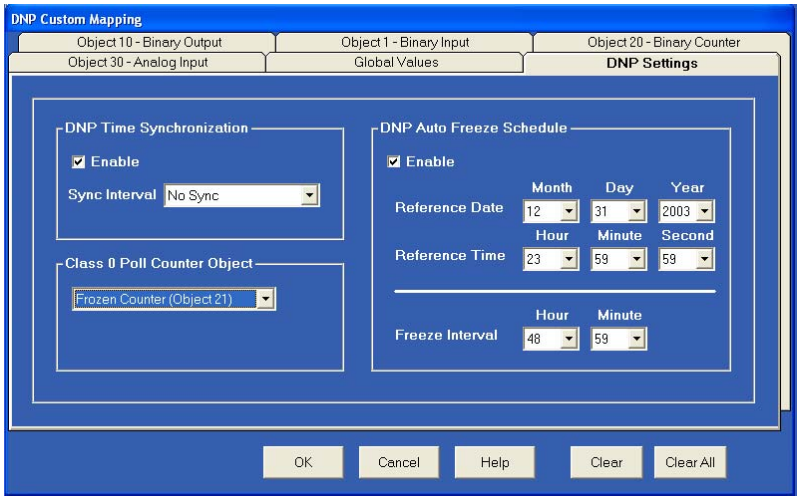
Relay Status and Reset Status can be polled using Object 10.
For Controlling Relays and performing Resets, Object 12 is used.
The Point Numbers for Relays and Resets are as follows:

Points	Assignment
0	Relay 1
1	Relay 2
2	Relay 3
3	Relay 4
4	Relay 5
5	Relay 6
6	Relay 7
7	Relay 8
8	Relay 9
9	Relay 10
10	Relay 11
11	Relay 12
12	Relay 13
13	Relay 14
14	Relay 15
15	Relay 16
16	Log Reset
17	Maximum Reset
18	Minimum Reset
19	Energy Reset
20	Reset Time of Use Current Season and Current Month
21	Manual Waveform Capture
22	Reset Internal Input Accumulations and Aggregations
23	Reset Unit to Boot Mode – Default Communication Settings



6.6: Global Values

Each Object can be polled by Variation 0. In this window, you can assign a default variation to be returned for each Object.



6.7: DNP Settings

In this window, you can enable DNP Time Synchronization. The Time Interval is the amount of time the device waits before requesting Time Synchronization from the Master (using IINI-4). The Time Interval is configurable from 1 minute to 1 day in 1-minute intervals.
NOTE: The initial factory setting is **Not Enabled**.

Class 0 Poll Counter Object allows you to select Binary Counter (Obj. 20) or Frozen Counter (Obj. 21) for a Class 0 Poll. DNP Auto Freeze Schedule enables and sets the interval for a Class 0 Poll.

Click the **OK** button to save any new settings.

NOTE: The **Clear All** button clears **all** assigned items on all the DNP Custom Mapping screens; the **Clear** button clears only the items on the current screen.

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
Object 1 - Binary Input						
1	16	0	HSI Delta Input 1			F2
1	16	1	HSI Delta Input 2			F2
1	16	2	HSI Delta Input 3			F2
1	16	3	HSI Delta Input 4			F2
1	16	4	HSI Delta Input 5			F2
1	16	5	HSI Delta Input 6			F2
1	16	6	HSI Delta Input 7			F2
1	16	7	HSI Delta Input 8			F2
1	16	8	HSI Current State Input 1			F3
1	16	9	HSI Current State Input 2			F3
1	16	10	HSI Current State Input 3			F3
1	16	11	HSI Current State Input 4			F3
1	16	12	HSI Current State Input 5			F3
1	16	13	HSI Current State Input 6			F3
1	16	14	HSI Current State Input 7			F3
1	16	15	HSI Current State Input 8			F3
1	231	0	Limit State, Value 1 Comparison, Limit 8			F11
1	231	1	Limit State, Value 1 Comparison, Limit 7			F11
1	231	2	Limit State, Value 1 Comparison, Limit 6			F11
1	231	3	Limit State, Value 1 Comparison, Limit 5			F11
1	231	4	Limit State, Value 1 Comparison, Limit 4			F11
1	231	5	Limit State, Value 1 Comparison, Limit 3			F11
1	231	6	Limit State, Value 1 Comparison, Limit 2			F11
1	231	7	Limit State, Value 1 Comparison, Limit 1			F11
1	231	8	Limit State, Value 1 Comparison, Limit 16			F11
1	231	9	Limit State, Value 1 Comparison, Limit 15			F11
1	231	10	Limit State, Value 1 Comparison, Limit 14			F11
1	231	11	Limit State, Value 1 Comparison, Limit 13			F11

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
1	231	12	Limit State, Value 1 Comparison, Limit 12			F11
1	231	13	Limit State, Value 1 Comparison, Limit 11			F11
1	231	14	Limit State, Value 1 Comparison, Limit 10			F11
1	231	15	Limit State, Value 1 Comparison, Limit 9			F11
1	231	16	Limit State, Value 1 Comparison, Limit 24			F11
1	231	17	Limit State, Value 1 Comparison, Limit 23			F11
1	231	18	Limit State, Value 1 Comparison, Limit 22			F11
1	231	19	Limit State, Value 1 Comparison, Limit 21			F11
1	231	20	Limit State, Value 1 Comparison, Limit 20			F11
1	231	21	Limit State, Value 1 Comparison, Limit 19			F11
1	231	22	Limit State, Value 1 Comparison, Limit 18			F11
1	231	23	Limit State, Value 1 Comparison, Limit 17			F11
1	231	24	Limit State, Value 1 Comparison, Limit 32			F11
1	231	25	Limit State, Value 1 Comparison, Limit 31			F11
1	231	26	Limit State, Value 1 Comparison, Limit 30			F11
1	231	27	Limit State, Value 1 Comparison, Limit 29			F11
1	231	28	Limit State, Value 1 Comparison, Limit 28			F11
1	231	29	Limit State, Value 1 Comparison, Limit 27			F11
1	231	30	Limit State, Value 1 Comparison, Limit 26			F11
1	231	31	Limit State, Value 1 Comparison, Limit 25			F11
1	232	0	Limit State, Value 2 Comparison, Limit 8			F11
1	232	1	Limit State, Value 2 Comparison, Limit 7			F11
1	232	2	Limit State, Value 2 Comparison, Limit 6			F11
1	232	3	Limit State, Value 2 Comparison, Limit 5			F11
1	232	4	Limit State, Value 2 Comparison, Limit 4			F11
1	232	5	Limit State, Value 2 Comparison, Limit 3			F11
1	232	6	Limit State, Value 2 Comparison, Limit 2			F11
1	232	7	Limit State, Value 2 Comparison, Limit 1			F11
1	232	8	Limit State, Value 2 Comparison, Limit 16			F11

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
1	232	9	Limit State, Value 2 Comparison, Limit 15			F11
1	232	10	Limit State, Value 2 Comparison, Limit 14			F11
1	232	11	Limit State, Value 2 Comparison, Limit 13			F11
1	232	12	Limit State, Value 2 Comparison, Limit 12			F11
1	232	13	Limit State, Value 2 Comparison, Limit 1			F11
1	232	14	Limit State, Value 2 Comparison, Limit 10			F11
1	232	15	Limit State, Value 2 Comparison, Limit 9			F11
1	232	16	Limit State, Value 2 Comparison, Limit 24			F11
1	232	17	Limit State, Value 2 Comparison, Limit 23			F11
1	232	18	Limit State, Value 2 Comparison, Limit 22			F11
1	232	19	Limit State, Value 2 Comparison, Limit 21			F11
1	232	20	Limit State, Value 2 Comparison, Limit 20			F11
1	232	21	Limit State, Value 2 Comparison, Limit 19			F11
1	232	22	Limit State, Value 2 Comparison, Limit 18			F11
1	232	23	Limit State, Value 2 Comparison, Limit 17			F11
1	232	24	Limit State, Value 2 Comparison, Limit 32			F11
1	232	25	Limit State, Value 2 Comparison, Limit 31			F11
1	232	26	Limit State, Value 2 Comparison, Limit 30			F11
1	232	27	Limit State, Value 2 Comparison, Limit 29			F11
1	232	28	Limit State, Value 2 Comparison, Limit 28			F11
1	232	29	Limit State, Value 2 Comparison, Limit 27			F11
1	232	30	Limit State, Value 2 Comparison, Limit 26			F11
1	232	31	Limit State, Value 2 Comparison, Limit 25			F11
1	233	0	Low Speed Input 1			F12
1	233	1	Low Speed Input 2			F12
1	233	2	Low Speed Input 3			F12
1	233	3	Low Speed Input 4			F12
1	233	4	Low Speed Input 5			F12
1	233	5	Low Speed Input 6			F12

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
1	233	6	Low Speed Input 7			F12
1	233	7	Low Speed Input 8			F12
1	234	0	Digital Input 1, Module 1			F13
1	234	1	Digital Input 2, Module 1			F13
1	234	2	Digital Input 3, Module 1			F13
1	234	3	Digital Input 4, Module 1			F13
1	234	4	Digital Input 5, Module 1			F13
1	234	5	Digital Input 6, Module 1			F13
1	234	6	Digital Input 7, Module 1			F13
1	234	7	Digital Input 8, Module 1			F13
1	236	0	Digital Input 1, Module 2			F13
1	236	1	Digital Input 2, Module 2			F13
1	236	2	Digital Input 3, Module 2			F13
1	236	3	Digital Input 4, Module 2			F13
1	236	4	Digital Input 5, Module 2			F13
1	236	5	Digital Input 6, Module 2			F13
1	236	6	Digital Input 7, Module 2			F13
1	236	7	Digital Input 8, Module 2			F13
1	238	0	Digital Input 1, Module 3			F13
1	238	1	Digital Input 2, Module 3			F13
1	238	2	Digital Input 3, Module 3			F13
1	238	3	Digital Input 4, Module 3			F13
1	238	4	Digital Input 5, Module 3			F13
1	238	5	Digital Input 6, Module 3			F13
1	238	6	Digital Input 7, Module 3			F13
1	238	7	Digital Input 8, Module 3			F13
1	240	0	Digital Input 1, Module 4			F13
1	240	1	Digital Input 2, Module 4			F13
1	240	2	Digital Input 3, Module 4			F13

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
1	240	3	Digital Input 4, Module 4			F13
1	240	4	Digital Input 5, Module 4			F13
1	240	5	Digital Input 6, Module 4			F13
1	240	6	Digital Input 7, Module 4			F13
1	240	7	Digital Input 8, Module 4			F13
1	415	0	Limit Combination State, Limit 8			F11
1	415	1	Limit Combination State, Limit 7			F11
1	415	2	Limit Combination State, Limit 6			F11
1	415	3	Limit Combination State, Limit 5			F11
1	415	4	Limit Combination State, Limit 4			F11
1	415	5	Limit Combination State, Limit 3			F11
1	415	6	Limit Combination State, Limit 2			F11
1	415	7	Limit Combination State, Limit 1			F11
1	415	8	Limit Combination State, Limit 16			F11
1	415	9	Limit Combination State, Limit 15			F11
1	415	10	Limit Combination State, Limit 14			F11
1	415	11	Limit Combination State, Limit 13			F11
1	415	12	Limit Combination State, Limit 12			F11
1	415	13	Limit Combination State, Limit 11			F11
1	415	14	Limit Combination State, Limit 10			F11
1	415	15	Limit Combination State, Limit 9			F11
1	415	16	Limit Combination State, Limit 24			F11
1	415	17	Limit Combination State, Limit 23			F11
1	415	18	Limit Combination State, Limit 22			F11
1	415	19	Limit Combination State, Limit 21			F11
1	415	20	Limit Combination State, Limit 20			F11
1	415	21	Limit Combination State, Limit 19			F11
1	415	22	Limit Combination State, Limit 18			F11
1	415	23	Limit Combination State, Limit 17			F11

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
1	415	24	Limit Combination State, Limit 32			F11
1	415	25	Limit Combination State, Limit 31			F11
1	415	26	Limit Combination State, Limit 30			F11
1	415	27	Limit Combination State, Limit 29			F11
1	415	28	Limit Combination State, Limit 28			F11
1	415	29	Limit Combination State, Limit 27			F11
1	415	30	Limit Combination State, Limit 26			F11
1	415	31	Limit Combination State, Limit 25			F11
1	417	0	Relay Logic Input 1, Logic Tree 8			F20
1	417	1	Relay Logic Input 1, Logic Tree 7			F20
1	417	2	Relay Logic Input 1, Logic Tree 6			F20
1	417	3	Relay Logic Input 1, Logic Tree 5			F20
1	417	4	Relay Logic Input 1, Logic Tree 4			F20
1	417	5	Relay Logic Input 1, Logic Tree 3			F20
1	417	6	Relay Logic Input 1, Logic Tree 2			F20
1	417	7	Relay Logic Input 1, Logic Tree 1			F20
1	417	8	Relay Logic Input 1, Logic Tree 16			F20
1	417	9	Relay Logic Input 1, Logic Tree 15			F20
1	417	10	Relay Logic Input 1, Logic Tree 14			F20
1	417	11	Relay Logic Input 1, Logic Tree 13			F20
1	417	12	Relay Logic Input 1, Logic Tree 12			F20
1	417	13	Relay Logic Input 1, Logic Tree 11			F20
1	417	14	Relay Logic Input 1, Logic Tree 10			F20
1	417	15	Relay Logic Input 1, Logic Tree 9			F20
1	418	0	Relay Logic Input 2, Logic Tree 8			F20
1	418	1	Relay Logic Input 2, Logic Tree 7			F20
1	418	2	Relay Logic Input 2, Logic Tree 6			F20
1	418	3	Relay Logic Input 2, Logic Tree 5			F20
1	418	4	Relay Logic Input 2, Logic Tree 4			F20

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
1	418	5	Relay Logic Input 2, Logic Tree 3			F20
1	418	6	Relay Logic Input 2, Logic Tree 2			F20
1	418	7	Relay Logic Input 2, Logic Tree 1			F20
1	418	8	Relay Logic Input 2, Logic Tree 16			F20
1	418	9	Relay Logic Input 2, Logic Tree 15			F20
1	418	10	Relay Logic Input 2, Logic Tree 14			F20
1	418	11	Relay Logic Input 2, Logic Tree 13			F20
1	418	12	Relay Logic Input 2, Logic Tree 12			F20
1	418	13	Relay Logic Input 2, Logic Tree 11			F20
1	418	14	Relay Logic Input 2, Logic Tree 10			F20
1	418	15	Relay Logic Input 2, Logic Tree 9			F20
1	419	0	Relay Logic Input 3, Logic Tree 8			F20
1	419	1	Relay Logic Input 3, Logic Tree 7			F20
1	419	2	Relay Logic Input 3, Logic Tree 6			F20
1	419	3	Relay Logic Input 3, Logic Tree 5			F20
1	419	4	Relay Logic Input 3, Logic Tree 4			F20
1	419	5	Relay Logic Input 3, Logic Tree 3			F20
1	419	6	Relay Logic Input 3, Logic Tree 2			F20
1	419	7	Relay Logic Input 3, Logic Tree 1			F20
1	419	8	Relay Logic Input 3, Logic Tree 16			F20
1	419	9	Relay Logic Input 3, Logic Tree 15			F20
1	419	10	Relay Logic Input 3, Logic Tree 14			F20
1	419	11	Relay Logic Input 3, Logic Tree 13			F20
1	419	12	Relay Logic Input 3, Logic Tree 12			F20
1	419	13	Relay Logic Input 3, Logic Tree 11			F20
1	419	14	Relay Logic Input 3, Logic Tree 10			F20
1	419	15	Relay Logic Input 3, Logic Tree 9			F20
1	420	0	Relay Logic Input 4, Logic Tree 8			F20
1	420	1	Relay Logic Input 4, Logic Tree 7			F20

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
1	420	2	Relay Logic Input 4, Logic Tree 6			F20
1	420	3	Relay Logic Input 4, Logic Tree 5			F20
1	420	4	Relay Logic Input 4, Logic Tree 4			F20
1	420	5	Relay Logic Input 4, Logic Tree 3			F20
1	420	6	Relay Logic Input 4, Logic Tree 2			F20
1	420	7	Relay Logic Input 4, Logic Tree 1			F20
1	420	8	Relay Logic Input 4, Logic Tree 16			F20
1	420	9	Relay Logic Input 4, Logic Tree 15			F20
1	420	10	Relay Logic Input 4, Logic Tree 14			F20
1	420	11	Relay Logic Input 4, Logic Tree 13			F20
1	420	12	Relay Logic Input 4, Logic Tree 12			F20
1	420	13	Relay Logic Input 4, Logic Tree 11			F20
1	420	14	Relay Logic Input 4, Logic Tree 10			F20
1	420	15	Relay Logic Input 4, Logic Tree 9			F20
1	421	0	Relay Logic Input 5, Logic Tree 8			F20
1	421	1	Relay Logic Input 5, Logic Tree 7			F20
1	421	2	Relay Logic Input 5, Logic Tree 6			F20
1	421	3	Relay Logic Input 5, Logic Tree 5			F20
1	421	4	Relay Logic Input 5, Logic Tree 4			F20
1	421	5	Relay Logic Input 5, Logic Tree 3			F20
1	421	6	Relay Logic Input 5, Logic Tree 2			F20
1	421	7	Relay Logic Input 5, Logic Tree 1			F20
1	421	8	Relay Logic Input 5, Logic Tree 16			F20
1	421	9	Relay Logic Input 5, Logic Tree 15			F20
1	421	10	Relay Logic Input 5, Logic Tree 14			F20
1	421	11	Relay Logic Input 5, Logic Tree 13			F20
1	421	12	Relay Logic Input 5, Logic Tree 12			F20
1	421	13	Relay Logic Input 5, Logic Tree 11			F20
1	421	14	Relay Logic Input 5, Logic Tree 10			F20

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
1	421	15	Relay Logic Input 5, Logic Tree 9			F20
1	422	0	Relay Logic Input 6, Logic Tree 8			F20
1	422	1	Relay Logic Input 6, Logic Tree 7			F20
1	422	2	Relay Logic Input 6, Logic Tree 6			F20
1	422	3	Relay Logic Input 6, Logic Tree 5			F20
1	422	4	Relay Logic Input 6, Logic Tree 4			F20
1	422	5	Relay Logic Input 6, Logic Tree 3			F20
1	422	6	Relay Logic Input 6, Logic Tree 2			F20
1	422	7	Relay Logic Input 6, Logic Tree 1			F20
1	422	8	Relay Logic Input 6, Logic Tree 16			F20
1	422	9	Relay Logic Input 6, Logic Tree 15			F20
1	422	10	Relay Logic Input 6, Logic Tree 14			F20
1	422	11	Relay Logic Input 6, Logic Tree 13			F20
1	422	12	Relay Logic Input 6, Logic Tree 12			F20
1	422	13	Relay Logic Input 6, Logic Tree 11			F20
1	422	14	Relay Logic Input 6, Logic Tree 10			F20
1	422	15	Relay Logic Input 6, Logic Tree 9			F20
1	423	0	Relay Logic Input 7, Logic Tree 8			F20
1	423	1	Relay Logic Input 7, Logic Tree 7			F20
1	423	2	Relay Logic Input 7, Logic Tree 6			F20
1	423	3	Relay Logic Input 7, Logic Tree 5			F20
1	423	4	Relay Logic Input 7, Logic Tree 4			F20
1	423	5	Relay Logic Input 7, Logic Tree 3			F20
1	423	6	Relay Logic Input 7, Logic Tree 2			F20
1	423	7	Relay Logic Input 7, Logic Tree 1			F20
1	423	8	Relay Logic Input 7, Logic Tree 16			F20
1	423	9	Relay Logic Input 7, Logic Tree 15			F20
1	423	10	Relay Logic Input 7, Logic Tree 14			F20
1	423	11	Relay Logic Input 7, Logic Tree 13			F20

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
1	423	12	Relay Logic Input 7, Logic Tree 12			F20
1	423	13	Relay Logic Input 7, Logic Tree 11			F20
1	423	14	Relay Logic Input 7, Logic Tree 10			F20
1	423	15	Relay Logic Input 7, Logic Tree 9			F20
1	424	0	Relay Logic Input 8, Logic Tree 8			F20
1	424	1	Relay Logic Input 8, Logic Tree 7			F20
1	424	2	Relay Logic Input 8, Logic Tree 6			F20
1	424	3	Relay Logic Input 8, Logic Tree 5			F20
1	424	4	Relay Logic Input 8, Logic Tree 4			F20
1	424	5	Relay Logic Input 8, Logic Tree 3			F20
1	424	6	Relay Logic Input 8, Logic Tree 2			F20
1	424	7	Relay Logic Input 8, Logic Tree 1			F20
1	424	8	Relay Logic Input 8, Logic Tree 16			F20
1	424	9	Relay Logic Input 8, Logic Tree 15			F20
1	424	10	Relay Logic Input 8, Logic Tree 14			F20
1	424	11	Relay Logic Input 8, Logic Tree 13			F20
1	424	12	Relay Logic Input 8, Logic Tree 12			F20
1	424	13	Relay Logic Input 8, Logic Tree 11			F20
1	424	14	Relay Logic Input 8, Logic Tree 10			F20
1	424	15	Relay Logic Input 8, Logic Tree 9			F20
1	425	0	Relay Logic Gate Output A, Logic Tree 8			F20
1	425	1	Relay Logic Gate Output A, Logic Tree 7			F20
1	425	2	Relay Logic Gate Output A, Logic Tree 6			F20
1	425	3	Relay Logic Gate Output A, Logic Tree 5			F20
1	425	4	Relay Logic Gate Output A, Logic Tree 4			F20
1	425	5	Relay Logic Gate Output A, Logic Tree 3			F20
1	425	6	Relay Logic Gate Output A, Logic Tree 2			F20
1	425	7	Relay Logic Gate Output A, Logic Tree 1			F20
1	425	8	Relay Logic Gate Output A, Logic Tree16			F20

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
1	425	9	Relay Logic Gate Output A, Logic Tree 15			F20
1	425	10	Relay Logic Gate Output A, Logic Tree 14			F20
1	425	11	Relay Logic Gate Output A, Logic Tree 13			F20
1	425	12	Relay Logic Gate Output A, Logic Tree 12			F20
1	425	13	Relay Logic Gate Output A, Logic Tree 11			F20
1	425	14	Relay Logic Gate Output A, Logic Tree 10			F20
1	425	15	Relay Logic Gate Output A, Logic Tree 9			F20
1	426	0	Relay Logic Gate Output B, Logic Tree 8			F20
1	426	1	Relay Logic Gate Output B, Logic Tree 7			F20
1	426	2	Relay Logic Gate Output B, Logic Tree 6			F20
1	426	3	Relay Logic Gate Output B, Logic Tree 5			F20
1	426	4	Relay Logic Gate Output B, Logic Tree 4			F20
1	426	5	Relay Logic Gate Output B, Logic Tree 3			F20
1	426	6	Relay Logic Gate Output B, Logic Tree 2			F20
1	426	7	Relay Logic Gate Output B, Logic Tree 1			F20
1	426	8	Relay Logic Gate Output B, Logic Tree 16			F20
1	426	9	Relay Logic Gate Output B, Logic Tree 15			F20
1	426	10	Relay Logic Gate Output B, Logic Tree 14			F20
1	426	11	Relay Logic Gate Output B, Logic Tree 13			F20
1	426	12	Relay Logic Gate Output B, Logic Tree 12			F20
1	426	13	Relay Logic Gate Output B, Logic Tree 11			F20
1	426	14	Relay Logic Gate Output B, Logic Tree 10			F20
1	426	15	Relay Logic Gate Output B, Logic Tree 9			F20
1	427	0	Relay Logic Gate Output C, Logic Tree 8			F20
1	427	1	Relay Logic Gate Output C, Logic Tree 7			F20
1	427	2	Relay Logic Gate Output C, Logic Tree 6			F20
1	427	3	Relay Logic Gate Output C, Logic Tree 5			F20
1	427	4	Relay Logic Gate Output C, Logic Tree 4			F20
1	427	5	Relay Logic Gate Output C, Logic Tree 3			F20

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
1	427	6	Relay Logic Gate Output C, Logic Tree 2			F20
1	427	7	Relay Logic Gate Output C, Logic Tree 1			F20
1	427	8	Relay Logic Gate Output C, Logic Tree 16			F20
1	427	9	Relay Logic Gate Output C, Logic Tree 15			F20
1	427	10	Relay Logic Gate Output C, Logic Tree 14			F20
1	427	11	Relay Logic Gate Output C, Logic Tree 13			F20
1	427	12	Relay Logic Gate Output C, Logic Tree 12			F20
1	427	13	Relay Logic Gate Output C, Logic Tree 11			F20
1	427	14	Relay Logic Gate Output C, Logic Tree 10			F20
1	427	15	Relay Logic Gate Output C, Logic Tree 9			F20
1	428	0	Relay Logic Gate Output D, Logic Tree 8			F20
1	428	1	Relay Logic Gate Output D, Logic Tree 7			F20
1	428	2	Relay Logic Gate Output D, Logic Tree 6			F20
1	428	3	Relay Logic Gate Output D, Logic Tree 5			F20
1	428	4	Relay Logic Gate Output D, Logic Tree 4			F20
1	428	5	Relay Logic Gate Output D, Logic Tree 3			F20
1	428	6	Relay Logic Gate Output D, Logic Tree 2			F20
1	428	7	Relay Logic Gate Output D, Logic Tree 1			F20
1	428	8	Relay Logic Gate Output D, Logic Tree 16			F20
1	428	9	Relay Logic Gate Output D, Logic Tree 15			F20
1	428	10	Relay Logic Gate Output D, Logic Tree 14			F20
1	428	11	Relay Logic Gate Output D, Logic Tree 13			F20
1	428	12	Relay Logic Gate Output D, Logic Tree 12			F20
1	428	13	Relay Logic Gate Output D, Logic Tree 11			F20
1	428	14	Relay Logic Gate Output D, Logic Tree 10			F20
1	428	15	Relay Logic Gate Output D, Logic Tree 9			F20
1	429	0	Relay Logic Gate Output E, Logic Tree 8			F20
1	429	1	Relay Logic Gate Output E, Logic Tree 7			F20
1	429	2	Relay Logic Gate Output E, Logic Tree 6			F20

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
1	429	3	Relay Logic Gate Output E, Logic Tree 5			F20
1	429	4	Relay Logic Gate Output E, Logic Tree 4			F20
1	429	5	Relay Logic Gate Output E, Logic Tree 3			F20
1	429	6	Relay Logic Gate Output E, Logic Tree 2			F20
1	429	7	Relay Logic Gate Output E, Logic Tree 1			F20
1	429	8	Relay Logic Gate Output E, Logic Tree 16			F20
1	429	9	Relay Logic Gate Output E, Logic Tree 15			F20
1	429	10	Relay Logic Gate Output E, Logic Tree 14			F20
1	429	11	Relay Logic Gate Output E, Logic Tree 13			F20
1	429	12	Relay Logic Gate Output E, Logic Tree 12			F20
1	429	13	Relay Logic Gate Output E, Logic Tree 11			F20
1	429	14	Relay Logic Gate Output E, Logic Tree 10			F20
1	429	15	Relay Logic Gate Output E, Logic Tree 9			F20
1	430	0	Relay Logic Gate Output F, Logic Tree 8			F20
1	430	1	Relay Logic Gate Output F, Logic Tree 7			F20
1	430	2	Relay Logic Gate Output F, Logic Tree 6			F20
1	430	3	Relay Logic Gate Output F, Logic Tree 5			F20
1	430	4	Relay Logic Gate Output F, Logic Tree 4			F20
1	430	5	Relay Logic Gate Output F, Logic Tree 3			F20
1	430	6	Relay Logic Gate Output F, Logic Tree 2			F20
1	430	7	Relay Logic Gate Output F, Logic Tree 1			F20
1	430	8	Relay Logic Gate Output F, Logic Tree 16			F20
1	430	9	Relay Logic Gate Output F, Logic Tree 15			F20
1	430	10	Relay Logic Gate Output F, Logic Tree 14			F20
1	430	11	Relay Logic Gate Output F, Logic Tree 13			F20
1	430	12	Relay Logic Gate Output F, Logic Tree 12			F20
1	430	13	Relay Logic Gate Output F, Logic Tree 11			F20
1	430	14	Relay Logic Gate Output F, Logic Tree 10			F20
1	430	15	Relay Logic Gate Output F, Logic Tree 9			F20

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
1	431	0	Relay Logic Gate Output G, Logic Tree 8			F20
1	431	1	Relay Logic Gate Output G, Logic Tree 7			F20
1	431	2	Relay Logic Gate Output G, Logic Tree 6			F20
1	431	3	Relay Logic Gate Output G, Logic Tree 5			F20
1	431	4	Relay Logic Gate Output G, Logic Tree 4			F20
1	431	5	Relay Logic Gate Output G, Logic Tree 3			F20
1	431	6	Relay Logic Gate Output G, Logic Tree 2			F20
1	431	7	Relay Logic Gate Output G, Logic Tree 1			F20
1	431	8	Relay Logic Gate Output G, Logic Tree 16			F20
1	431	9	Relay Logic Gate Output G, Logic Tree 15			F20
1	431	10	Relay Logic Gate Output G, Logic Tree 14			F20
1	431	11	Relay Logic Gate Output G, Logic Tree 13			F20
1	431	12	Relay Logic Gate Output G, Logic Tree 12			F20
1	431	13	Relay Logic Gate Output G, Logic Tree 11			F20
1	431	14	Relay Logic Gate Output G, Logic Tree 10			F20
1	431	15	Relay Logic Gate Output G, Logic Tree 9			F20
1	433	0	Desired Relay States, Relay 8			F22
1	433	1	Desired Relay States, Relay 7			F22
1	433	2	Desired Relay States, Relay 6			F22
1	433	3	Desired Relay States, Relay 5			F22
1	433	4	Desired Relay States, Relay 4			F22
1	433	5	Desired Relay States, Relay 3			F22
1	433	6	Desired Relay States, Relay 2			F22
1	433	7	Desired Relay States, Relay 1			F22
1	433	8	Desired Relay States, Relay 16			F22
1	433	9	Desired Relay States, Relay 15			F22
1	433	10	Desired Relay States, Relay 14			F22
1	433	11	Desired Relay States, Relay 13			F22
1	433	12	Desired Relay States, Relay 12			F22

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
1	433	13	Desired Relay States, Relay 11			F22
1	433	14	Desired Relay States, Relay 10			F22
1	433	15	Desired Relay States, Relay 9			F22
1	434	0	Relay Pending Updates, Relay 8			F23
1	434	1	Relay Pending Updates, Relay 7			F23
1	434	2	Relay Pending Updates, Relay 6			F23
1	434	3	Relay Pending Updates, Relay 5			F23
1	434	4	Relay Pending Updates, Relay 4			F23
1	434	5	Relay Pending Updates, Relay 3			F23
1	434	6	Relay Pending Updates, Relay 2			F23
1	434	7	Relay Pending Updates, Relay 1			F23
1	434	8	Relay Pending Updates, Relay 16			F23
1	434	9	Relay Pending Updates, Relay 15			F23
1	434	10	Relay Pending Updates, Relay 14			F23
1	434	11	Relay Pending Updates, Relay 13			F23
1	434	12	Relay Pending Updates, Relay 12			F23
1	434	13	Relay Pending Updates, Relay 11			F23
1	434	14	Relay Pending Updates, Relay 10			F23
1	434	15	Relay Pending Updates, Relay 9			F23
1	435	0	Shadowed Relay State, Relay 8			F24
1	435	1	Shadowed Relay State, Relay 7			F24
1	435	2	Shadowed Relay State, Relay 6			F24
1	435	3	Shadowed Relay State, Relay 5			F24
1	435	4	Shadowed Relay State, Relay 4			F24
1	435	5	Shadowed Relay State, Relay 3			F24
1	435	6	Shadowed Relay State, Relay 2			F24
1	435	7	Shadowed Relay State, Relay 1			F24
1	435	8	Shadowed Relay State, Relay 16			F24
1	435	9	Shadowed Relay State, Relay 15			F24

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
1	435	10	Shadowed Relay State, Relay 14			F24
1	435	11	Shadowed Relay State, Relay 13			F24
1	435	12	Shadowed Relay State, Relay 12			F24
1	435	13	Shadowed Relay State, Relay 11			F24
1	435	14	Shadowed Relay State, Relay 10			F24
1	435	15	Shadowed Relay State, Relay 9			F24
1	437	0	Valid Flag for Confirmed Relay States, Relay 8			F26
1	437	1	Valid Flag for Confirmed Relay States, Relay 7			F26
1	437	2	Valid Flag for Confirmed Relay States, Relay 6			F26
1	437	3	Valid Flag for Confirmed Relay States, Relay 5			F26
1	437	4	Valid Flag for Confirmed Relay States, Relay 4			F26
1	437	5	Valid Flag for Confirmed Relay States, Relay 3			F26
1	437	6	Valid Flag for Confirmed Relay States, Relay 2			F26
1	437	7	Valid Flag for Confirmed Relay States, Relay 1			F26
1	437	8	Valid Flag for Confirmed Relay States, Relay 16			F26
1	437	9	Valid Flag for Confirmed Relay States, Relay 15			F26
1	437	10	Valid Flag for Confirmed Relay States, Relay 14			F26
1	437	11	Valid Flag for Confirmed Relay States, Relay 13			F26
1	437	12	Valid Flag for Confirmed Relay States, Relay 12			F26
1	437	13	Valid Flag for Confirmed Relay States, Relay 11			F26
1	437	14	Valid Flag for Confirmed Relay States, Relay 10			F26
1	437	15	Valid Flag for Confirmed Relay States, Relay 9			F26
1	438	0	Locked Relay, Relay 8			F27
1	438	1	Locked Relay, Relay 7			F27
1	438	2	Locked Relay, Relay 6			F27
1	438	3	Locked Relay, Relay 5			F27
1	438	4	Locked Relay, Relay 4			F27
1	438	5	Locked Relay, Relay 3			F27
1	438	6	Locked Relay, Relay 2			F27

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
1	438	7	Locked Relay, Relay 1			F27
1	438	8	Locked Relay, Relay 16			F27
1	438	9	Locked Relay, Relay 15			F27
1	438	10	Locked Relay, Relay 14			F27
1	438	11	Locked Relay, Relay 13			F27
1	438	12	Locked Relay, Relay 12			F27
1	438	13	Locked Relay, Relay 11			F27
1	438	14	Locked Relay, Relay 10			F27
1	438	15	Locked Relay, Relay 9			F27
1	439	0	Locked Relay State, Relay 8			F28
1	439	1	Locked Relay State, Relay 7			F28
1	439	2	Locked Relay State, Relay 6			F28
1	439	3	Locked Relay State, Relay 5			F28
1	439	4	Locked Relay State, Relay 4			F28
1	439	5	Locked Relay State, Relay 3			F28
1	439	6	Locked Relay State, Relay 2			F28
1	439	7	Locked Relay State, Relay 1			F28
1	439	8	Locked Relay State, Relay 16			F28
1	439	9	Locked Relay State, Relay 15			F28
1	439	10	Locked Relay State, Relay 14			F28
1	439	11	Locked Relay State, Relay 13			F28
1	439	12	Locked Relay State, Relay 12			F28
1	439	13	Locked Relay State, Relay 11			F28
1	439	14	Locked Relay State, Relay 10			F28
1	439	15	Locked Relay State, Relay 9			F28
1	441	0	Undefined			
1	441	1	Undefined			
1	441	2	Undefined			
1	441	3	Undefined			

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
1	441	4	Undefined			
1	441	5	Undefined			
1	441	6	Undefined			
1	441	7	NVRAM Battery Status			F30
1	441	8	Undefined			
1	441	9	Undefined			
1	441	10	Undefined			
1	441	11	Undefined			
1	441	12	Undefined			
1	441	13	Undefined			
1	441	14	Undefined			
1	441	15	Undefined			
1	449	0	Undefined			
1	449	1	Undefined			
1	449	2	Undefined			
1	449	3	Undefined			
1	449	4	Digital Input Module 4 Data State			F31
1	449	5	Digital Input Module 3 Data State			F31
1	449	6	Digital Input Module 2 Data State			F31
1	449	7	Digital Input Module 1 Data State			F31
1	449	8	Undefined			
1	449	9	Undefined			
1	449	10	Undefined			
1	449	11	Undefined			
1	449	12	Undefined			
1	449	13	Undefined			
1	449	14	Undefined			
1	449	15	Undefined			
1	450	0	Analog Input Module 1, Channel 8 Data State			F32

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
1	450	1	Analog Input Module 1, Channel 7 Data State			F32
1	450	2	Analog Input Module 1, Channel 6 Data State			F32
1	450	3	Analog Input Module 1, Channel 5 Data State			F32
1	450	4	Analog Input Module 1, Channel 4 Data State			F32
1	450	5	Analog Input Module 1, Channel 3 Data State			F32
1	450	6	Analog Input Module 1, Channel 2 Data State			F32
1	450	7	Analog Input Module 1, Channel 1 Data State			F32
1	450	8	Analog Input Module 2, Channel 8 Data State			F32
1	450	9	Analog Input Module 2, Channel 7 Data State			F32
1	450	10	Analog Input Module 2, Channel 6 Data State			F32
1	450	11	Analog Input Module 2, Channel 5 Data State			F32
1	450	12	Analog Input Module 2, Channel 4 Data State			F32
1	450	13	Analog Input Module 2, Channel 3 Data State			F32
1	450	14	Analog Input Module 2, Channel 2 Data State			F32
1	450	15	Analog Input Module 2, Channel 1 Data State			F32
1	450	16	Analog Input Module 3, Channel 8 Data State			F32
1	450	17	Analog Input Module 3, Channel 7 Data State			F32
1	450	18	Analog Input Module 3, Channel 6 Data State			F32
1	450	19	Analog Input Module 3, Channel 5 Data State			F32
1	450	20	Analog Input Module 3, Channel 4 Data State			F32
1	450	21	Analog Input Module 3, Channel 3 Data State			F32
1	450	22	Analog Input Module 3, Channel 2 Data State			F32
1	450	23	Analog Input Module 3, Channel 1 Data State			F32
1	450	24	Analog Input Module 4, Channel 8 Data State			F32
1	450	25	Analog Input Module 4, Channel 7 Data State			F32
1	450	26	Analog Input Module 4, Channel 6 Data State			F32
1	450	27	Analog Input Module 4, Channel 5 Data State			F32
1	450	28	Analog Input Module 4, Channel 4 Data State			F32
1	450	29	Analog Input Module 4, Channel 3 Data State			F32

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
1	450	30	Analog Input Module 4, Channel 2 Data State			F32
1	450	31	Analog Input Module 4, Channel 1 Data State			F32
Object 10 - Binary Output						
10			Confirmed Polled Relay State, Relay 1			F25
10			Confirmed Polled Relay State, Relay 2			F25
10			Confirmed Polled Relay State, Relay 3			F25
10			Confirmed Polled Relay State, Relay 4			F25
10			Confirmed Polled Relay State, Relay 5			F25
10			Confirmed Polled Relay State, Relay 6			F25
10			Confirmed Polled Relay State, Relay 7			F25
10			Confirmed Polled Relay State, Relay 8			F25
10			Confirmed Polled Relay State, Relay 9			F25
10			Confirmed Polled Relay State, Relay 10			F25
10			Confirmed Polled Relay State, Relay 11			F25
10			Confirmed Polled Relay State, Relay 12			F25
10			Confirmed Polled Relay State, Relay 13			F25
10			Confirmed Polled Relay State, Relay 14			F25
10			Confirmed Polled Relay State, Relay 15			F25
10			Confirmed Polled Relay State, Relay 16			F25
10			Log Reset			F29
10			Maximum Reset			F29
10			Minimum Reset			F29
10			Energy Reset			F29
10			Reset Time Of Use Current Season and Current Month			F29
10			Manual Waveform Capture			F29
10			Reset Internal Input Accumulations and Aggregations			F29
10			Reset Unit to Boot Mode - Default Communication Settings			F29
Object 20 - Binary Counter						
20	133	0	VAhour	4,294,967,295 / 0	1 Unit	F8

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
20	133	1	Positive VARhour	4,294,967,295 / 0	1 Unit	F8
20	133	2	Negative VARhour	4,294,967,295 / 0	1 Unit	F8
20	133	3	Positive Watthour	4,294,967,295 / 0	1 Unit	F8
20	133	4	Negative Watthour	4,294,967,295 / 0	1 Unit	F8
20	235	0	Digital Input Accumulation 1, Module 1	4,294,967,295 / 0	1 Unit	F14
20	235	1	Digital Input Accumulation 2, Module 1	4,294,967,295 / 0	1 Unit	F14
20	235	2	Digital Input Accumulation 3, Module 1	4,294,967,295 / 0	1 Unit	F14
20	235	3	Digital Input Accumulation 4, Module 1	4,294,967,295 / 0	1 Unit	F14
20	235	4	Digital Input Accumulation 5, Module 1	4,294,967,295 / 0	1 Unit	F14
20	235	5	Digital Input Accumulation 6, Module 1	4,294,967,295 / 0	1 Unit	F14
20	235	6	Digital Input Accumulation 7, Module 1	4,294,967,295 / 0	1 Unit	F14
20	235	7	Digital Input Accumulation 8, Module 1	4,294,967,295 / 0	1 Unit	F14
20	237	0	Digital Input Accumulation 1, Module 2	4,294,967,295 / 0	1 Unit	F14
20	237	1	Digital Input Accumulation 2, Module 2	4,294,967,295 / 0	1 Unit	F14
20	237	2	Digital Input Accumulation 3, Module 2	4,294,967,295 / 0	1 Unit	F14
20	237	3	Digital Input Accumulation 4, Module 2	4,294,967,295 / 0	1 Unit	F14
20	237	4	Digital Input Accumulation 5, Module 2	4,294,967,295 / 0	1 Unit	F14
20	237	5	Digital Input Accumulation 6, Module 2	4,294,967,295 / 0	1 Unit	F14
20	237	6	Digital Input Accumulation 7, Module 2	4,294,967,295 / 0	1 Unit	F14
20	237	7	Digital Input Accumulation 8, Module 2	4,294,967,295 / 0	1 Unit	F14
20	239	0	Digital Input Accumulation 1, Module 3	4,294,967,295 / 0	1 Unit	F14
20	239	1	Digital Input Accumulation 2, Module 3	4,294,967,295 / 0	1 Unit	F14
20	239	2	Digital Input Accumulation 3, Module 3	4,294,967,295 / 0	1 Unit	F14
20	239	3	Digital Input Accumulation 4, Module 3	4,294,967,295 / 0	1 Unit	F14
20	239	4	Digital Input Accumulation 5, Module 3	4,294,967,295 / 0	1 Unit	F14
20	239	5	Digital Input Accumulation 6, Module 3	4,294,967,295 / 0	1 Unit	F14
20	239	6	Digital Input Accumulation 7, Module 3	4,294,967,295 / 0	1 Unit	F14
20	239	7	Digital Input Accumulation 8, Module 3	4,294,967,295 / 0	1 Unit	F14
20	241	0	Digital Input Accumulation 1, Module 4	4,294,967,295 / 0	1 Unit	F14

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
20	241	1	Digital Input Accumulation 2, Module 4	4,294,967,295 / 0	1 Unit	F14
20	241	2	Digital Input Accumulation 3, Module 4	4,294,967,295 / 0	1 Unit	F14
20	241	3	Digital Input Accumulation 4, Module 4	4,294,967,295 / 0	1 Unit	F14
20	241	4	Digital Input Accumulation 5, Module 4	4,294,967,295 / 0	1 Unit	F14
20	241	5	Digital Input Accumulation 6, Module 4	4,294,967,295 / 0	1 Unit	F14
20	241	6	Digital Input Accumulation 7, Module 4	4,294,967,295 / 0	1 Unit	F14
20	241	7	Digital Input Accumulation 8, Module 4	4,294,967,295 / 0	1 Unit	F14
20	244	0	Received Watthour (Quadrant 1 + 4)	+4,294,967,295 Wh / 0 Wh	1 W_H	F15
20	244	1	VAhour while Receiving Watthour and Negative VARhour (Quadrant 1)	+4,294,967,295 VAh / 0 VAh	1 VA_H	F15
20	244	2	Negative VARhour while Receiving Watthour (Quadrant 1)	0 VARh / -4,294,967,295 VARh	1 VAR_H	F15
20	244	3	Vahour while Receiving Watthour and Positive VARhour (Quadrant 4)	+4,294,967,295 VAh / 0 VAh	1 VA_H	F15
20	244	4	Positive VARhour while Receiving Watthour (Quadrant 4)	+4,294,967,295 VARh / 0 VARh	1 VAR_H	F15
20	244	5	Delivered Watthour (Quadrant 2 + 3)	0 Wh / -4,294,967,295 Wh	1 W_H	F15
20	244	6	VAhour while Delivering Watthour and Negative VARhour (Quadrant 2)	+4,294,967,295 VAh / 0 VAh	1 VA_H	F15
20	244	7	Negative VARhour while Delivering Watthour (Quadrant 2)	0 VARh / -4,294,967,295 VARh	1 VAR_H	F15
20	244	8	Vahour while Delivering Watthour and Positive VARhour (Quadrant 3)	+4,294,967,295 VAh / 0 VAh	1 VA_H	F15
20	244	9	Positive VARhour while Delivering Watthour (Quadrant 3)	+4,294,967,295 VARh / 0 VARh	1 VAR_H	F15
20	246	0	I^2t Phase A	+4,294,967,295 I2t / 0	1 I^2t	F15
20	246	1	I^2t Phase B	+4,294,967,295 I2t / 0	1 I^2t	F15
20	246	2	I^2t Phase C	+4,294,967,295 I2t / 0	1 I^2t	F15
20	246	3	V^2t Phase A	+4,294,967,295 V2t / 0	1 V^2t	F15
20	246	4	V^2t Phase B	+4,294,967,295 V2t / 0	1 V^2t	F15
20	246	5	V^2t Phase C	+4,294,967,295 V2t / 0	1 V^2t	F15
20	400	0	Scaled Pulse Accumulation Internal Input 1	4,294,967,295 / 0	1 Unit	F15
20	400	1	Scaled Pulse Accumulation Internal Input 2	4,294,967,295 / 0	1 Unit	F15
20	400	2	Scaled Pulse Accumulation Internal Input 3	4,294,967,295 / 0	1 Unit	F15
20	400	3	Scaled Pulse Accumulation Internal Input 4	4,294,967,295 / 0	1 Unit	F15
20	400	4	Scaled Pulse Accumulation Internal Input 5	4,294,967,295 / 0	1 Unit	F15
20	400	5	Scaled Pulse Accumulation Internal Input 6	4,294,967,295 / 0	1 Unit	F15

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
20	400	6	Scaled Pulse Accumulation Internal Input 7	4,294,967,295 / 0	1 Unit	F15
20	400	7	Scaled Pulse Accumulation Internal Input 8	4,294,967,295 / 0	1 Unit	F15
20	401	0	Scaled Pulse Accumulation Aggregation 1	4,294,967,295 / 0	1 Unit	F15
20	401	1	Scaled Pulse Accumulation Aggregation 2	4,294,967,295 / 0	1 Unit	F15
20	401	2	Scaled Pulse Accumulation Aggregation 3	4,294,967,295 / 0	1 Unit	F15
20	401	3	Scaled Pulse Accumulation Aggregation 4	4,294,967,295 / 0	1 Unit	F15
20	404	0	Block Window Average Internal Input 1	4,294,967,295 / 0	1 Unit	F18
20	404	1	Block Window Average Internal Input 2	4,294,967,295 / 0	1 Unit	F18
20	404	2	Block Window Average Internal Input 3	4,294,967,295 / 0	1 Unit	F18
20	404	3	Block Window Average Internal Input 4	4,294,967,295 / 0	1 Unit	F18
20	404	4	Block Window Average Internal Input 5	4,294,967,295 / 0	1 Unit	F18
20	404	5	Block Window Average Internal Input 6	4,294,967,295 / 0	1 Unit	F18
20	404	6	Block Window Average Internal Input 7	4,294,967,295 / 0	1 Unit	F18
20	404	7	Block Window Average Internal Input 8	4,294,967,295 / 0	1 Unit	F18
20	405	0	Block Window Average Aggregation 1	4,294,967,295 / 0	1 Unit	F18
20	405	1	Block Window Average Aggregation 2	4,294,967,295 / 0	1 Unit	F18
20	405	2	Block Window Average Aggregation 3	4,294,967,295 / 0	1 Unit	F18
20	405	3	Block Window Average Aggregation 4	4,294,967,295 / 0	1 Unit	F18
20	406	0	Maximum Block Window Average Internal Input 1	4,294,967,295 / 0	1 Unit	F18
20	406	1	Maximum Block Window Average Internal Input 2	4,294,967,295 / 0	1 Unit	F18
20	406	2	Maximum Block Window Average Internal Input 3	4,294,967,295 / 0	1 Unit	F18
20	406	3	Maximum Block Window Average Internal Input 4	4,294,967,295 / 0	1 Unit	F18
20	406	4	Maximum Block Window Average Internal Input 5	4,294,967,295 / 0	1 Unit	F18
20	406	5	Maximum Block Window Average Internal Input 6	4,294,967,295 / 0	1 Unit	F18
20	406	6	Maximum Block Window Average Internal Input 7	4,294,967,295 / 0	1 Unit	F18
20	406	7	Maximum Block Window Average Internal Input 8	4,294,967,295 / 0	1 Unit	F18
20	407	0	Maximum Block Window Average Aggregation 1	4,294,967,295 / 0	1 Unit	F18
20	407	1	Maximum Block Window Average Aggregation 2	4,294,967,295 / 0	1 Unit	F18
20	407	2	Maximum Block Window Average Aggregation 3	4,294,967,295 / 0	1 Unit	F18

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
20	407	3	Maximum Block Window Average Aggregation 4	4,294,967,295 / 0	1 Unit	F18
20	446	0	Test Mode Received Watthour (Q1+4)	+4,294,967,295 Wh / 0 Wh	1 W_H	F8
20	446	1	Test Mode Received VAhour (Q1)	+4,294,967,295 VAh / 0 VAh	1 VA_H	F8
20	446	2	Test Mode Received VARhour (Q1)	0 VARh / -4,294,967,295 VARh	1 VAR_H	F8
20	446	3	Test Mode Received VAhour (Q4)	+4,294,967,295 VAh / 0 VAh	1 VA_H	F8
20	446	4	Test Mode Received VARhour (Q4)	+4,294,967,295 VARh / 0 VARh	1 VAR_H	F8
20	446	5	Test Mode Delivered Watthour (Q2+3)	0 Wh / -4,294,967,295 Wh	1 W_H	F8
20	446	6	Test Mode Delivered VAhour (Q2)	+4,294,967,295 VAh / 0 VAh	1 VA_H	F8
20	446	7	Test Mode Delivered VARhour (Q2)	0 VARh / -4,294,967,295 VARh	1 VAR_H	F8
20	446	8	Test Mode Delivered VAhour (Q3)	+4,294,967,295 VAh / 0 VAh	1 VA_H	F8
20	446	9	Test Mode Delivered VARhour (Q3)	+4,294,967,295 VARh / 0 VARh	1 VAR_H	F8
20	448	0	KYZ Output Accumulation, Relay 1	4,294,967,295 / 0	1 Unit	F14
20	448	1	KYZ Output Accumulation, Relay 2	4,294,967,295 / 0	1 Unit	F14
20	448	2	KYZ Output Accumulation, Relay 3	4,294,967,295 / 0	1 Unit	F14
20	448	3	KYZ Output Accumulation, Relay 4	4,294,967,295 / 0	1 Unit	F14
20	448	4	KYZ Output Accumulation, LED	4,294,967,295 / 0	1 Unit	F14
20	475	0	Quadrant 1 Watthour, Secondary	+4,294,967,295 Wh / 0 Wh	1 W_H	F15
20	475	1	Quadrant 4 Watthour, Secondary	+4,294,967,295 Wh / 0 Wh	1 W_H	F15
20	475	2	Quadrant 2 Watthour, Secondary	+4,294,967,295 Wh / 0 Wh	1 W_H	F15
20	475	3	Quadrant 3 Watthour, Secondary	+4,294,967,295 Wh / 0 Wh	1 W_H	F15
20	476	0	Quadrant 1 Vahour, Secondary	+4,294,967,295 VAh / 0 VAh	1 VA_H	F15
20	476	1	Quadrant 1 VARhour, Secondary	+4,294,967,295 VARh / 0 VARh	1 VAR_H	F15
20	476	2	Quadrant 4 Vahour, Secondary	+4,294,967,295 VAh / 0 VAh	1 VA_H	F15
20	476	3	Quadrant 4 VARhour, Secondary	+4,294,967,295 VARh / 0 VARh	1 VAR_H	F15
20	476	4	Quadrant 2 Vahour, Secondary	+4,294,967,295 VAh / 0 VAh	1 VA_H	F15
20	476	5	Quadrant 2 VARhour, Secondary	+4,294,967,295 VARh / 0 VARh	1 VAR_H	F15
20	476	6	Quadrant 3 Vahour, Secondary	+4,294,967,295 VAh / 0 VAh	1 VA_H	F15
20	476	7	Quadrant 3 VARhour, Secondary	+4,294,967,295 VARh / 0 VARh	1 VAR_H	F15
20	477	0	Quadrant 1 Watthour, Primary	+4,294,967,295 Wh / 0 Wh	1 W_H	F15

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
20	477	1	Quadrant 4 Watthour, Primary	+4,294,967,295 Wh / 0 Wh	1 W_H	F15
20	477	2	Quadrant 2 Watthour, Primary	+4,294,967,295 Wh / 0 Wh	1 W_H	F15
20	477	3	Quadrant 3 Watthour, Primary	+4,294,967,295 Wh / 0 Wh	1 W_H	F15
20	478	0	Total Vahour (Quadrants 1+2+3+4), Primary	+4,294,967,295 VAh / 0 VAh	1 VA_H	F15
20	478	1	Positive VARhour (Quadrants 1+2), Primary	+4,294,967,295 VARh / 0 VARh	1 VAR_H	F15
20	478	2	Negative VARhour (Quadrants 3+4), Primary	+4,294,967,295 VARh / 0 VARh	1 VAR_H	F15
20	492	0	Positive Watt (Quadrants 1+4) Cumulative Demand	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	492	1	Negative Watt (Quadrants 2+3) Cumulative Demand	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	493	0	Positive Watt (Quadrants 1+4) Continuous Cumulative Demand	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	493	1	Negative Watt (Quadrants 2+3) Continuous Cumulative Demand	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	494	0	TOU Current Season Reg1 Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	494	1	TOU Current Season Reg1 Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	494	2	TOU Current Season Reg2 Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	494	3	TOU Current Season Reg2 Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	494	4	TOU Current Season Reg3 Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	494	5	TOU Current Season Reg3 Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	494	6	TOU Current Season Reg4 Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	494	7	TOU Current Season Reg4 Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	494	8	TOU Current Season Reg5 Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	494	9	TOU Current Season Reg5 Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	494	10	TOU Current Season Reg6 Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	494	11	TOU Current Season Reg6 Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	494	12	TOU Current Season Reg7 Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	494	13	TOU Current Season Reg7 Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	494	14	TOU Current Season Reg8 Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	494	15	TOU Current Season Reg8 Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	494	16	TOU Current Season Total Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	494	17	TOU Current Season Total Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	495	0	TOU Current Month Reg1 Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
20	495	1	TOU Current Month Reg1 Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	495	2	TOU Current Month Reg2 Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	495	3	TOU Current Month Reg2 Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	495	4	TOU Current Month Reg3 Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	495	5	TOU Current Month Reg3 Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	495	6	TOU Current Month Reg4 Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	495	7	TOU Current Month Reg4 Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	495	8	TOU Current Month Reg5 Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	495	9	TOU Current Month Reg5 Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	495	10	TOU Current Month Reg6 Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	495	11	TOU Current Month Reg6 Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	495	12	TOU Current Month Reg7 Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	495	13	TOU Current Month Reg7 Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	495	14	TOU Current Month Reg8 Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	495	15	TOU Current Month Reg8 Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	495	16	TOU Current Month Total Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	495	17	TOU Current Month Total Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	496	0	TOU Current Season Reg1 Continuous Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	496	1	TOU Current Season Reg1 Continuous Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	496	2	TOU Current Season Reg2 Continuous Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	496	3	TOU Current Season Reg2 Continuous Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	496	4	TOU Current Season Reg3 Continuous Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	496	5	TOU Current Season Reg3 Continuous Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	496	6	TOU Current Season Reg4 Continuous Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	496	7	TOU Current Season Reg4 Continuous Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	496	8	TOU Current Season Reg5 Continuous Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	496	9	TOU Current Season Reg5 Continuous Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	496	10	TOU Current Season Reg6 Continuous Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	496	11	TOU Current Season Reg6 Continuous Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
20	496	12	TOU Current Season Reg7 Continuous Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	496	13	TOU Current Season Reg7 Continuous Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	496	14	TOU Current Season Reg8 Continuous Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	496	15	TOU Current Season Reg8 Continuous Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	496	16	TOU Current Season Total Continuous Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	496	17	TOU Current Season Total Continuous Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	497	0	TOU Current Month Reg1 Continuous Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	497	1	TOU Current Month Reg1 Continuous Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	497	2	TOU Current Month Reg2 Continuous Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	497	3	TOU Current Month Reg2 Continuous Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	497	4	TOU Current Month Reg3 Continuous Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	497	5	TOU Current Month Reg3 Continuous Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	497	6	TOU Current Month Reg4 Continuous Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	497	7	TOU Current Month Reg4 Continuous Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	497	8	TOU Current Month Reg5 Continuous Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	497	9	TOU Current Month Reg5 Continuous Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	497	10	TOU Current Month Reg6 Continuous Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	497	11	TOU Current Month Reg6 Continuous Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	497	12	TOU Current Month Reg7 Continuous Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	497	13	TOU Current Month Reg7 Continuous Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	497	14	TOU Current Month Reg8 Continuous Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	497	15	TOU Current Month Reg8 Continuous Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	497	16	TOU Current Month Total Continuous Cumulative Demand Q1 + Q4 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	497	17	TOU Current Month Total Continuous Cumulative Demand Q2 + Q3 Watt	+4,294,967,295 Watt / 0 Watt	1 W_H	F14
20	507	0-4	Uncompensated Energy, secondary, binary	+4,294,967,295 Wh / 0 Wh	2^{32} W_H	F8
20	509	0-4	Uncompensated Energy, primary binary	+4,294,967,295 Wh / 0 Wh	2^{32} W_H	F15
20	520	0-1	+/- Qh, secondary binary	+4,294,967,295 Qh / 0 Qh	2^{32} Q_H	F8
20	522	0-1	+/- Qh, primary binary	+4,294,967,295 Qh / 0 Qh	2^{32} Q_H	F15
20	536	0	Total VAh (Quadrant 1+2+3+4) Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
20	536	1	Positive VARh (Quadrant 1+2) Scaled Priamry	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	536	2	Negative VARh (Quadrant 3+4) Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	537	0	Positive Wh (Quadrant 1+4) Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	537	1	Quadrant 1 VAh Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	537	2	Quadrant 1 VARh Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	537	3	Quadrant 4 VAh Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	537	4	Quadrant 4 VARh Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	537	5	Negative Wh (Quadrant 2+3) Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	537	6	Quadrant 2 VAh Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	537	7	Quadrant 2 VARh Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	537	8	Quadrant 3 VAh Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	537	9	Quadrant 3 VARh Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	538	0	I2t Phase A Scaled Priamry	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	538	1	I2t Phase B Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	538	2	I2t Phase C Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	538	3	V2t Phase A Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	538	4	V2t Phase B Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	538	5	V2t Phase C Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	539	0	Quadrant 1 Wh Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	539	1	Quadrant 4 Wh Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	539	2	Quadrant 2 Wh Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	539	3	Quadrant 3 Wh Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	540	0	Uncompensated Total VAh, Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	540	1-2	Uncompensated +/- VARh Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	540	3-4	Uncompensated +/- Wh Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	541	0-1	+/- Qh Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	542	0	Test Mode Positive Wh (Quadrant 1+4) Scaled Secondary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	542	1	Test Mode Quadrant 1 VAh Scaled Secondary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	542	2	Test Mode Quadrant 1 VARh Scaled Secondary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
20	542	3	Test Mode Quadrant 4 VAh Scaled Secondary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	542	4	Test Mode Quadrant 4 VARh Scaled Secondary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	542	5	Test Mode Negative Wh (Quadrant 2+3) Scaled Secondary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	542	6	Test Mode Quadrant 2 VAh Scaled Secondary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	542	7	Test Mode Quadrant 2 VARh Scaled Secondary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	542	8	Test Mode Quadrant 3 VAh Scaled Secondary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	542	9	Test Mode Quadrant 3 VARh Scaled Secondary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	543	0-7	Pulse Accumulation Inputs 1-8, Scaled	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	544	0-3	Pulse Aggregations 1-4, Scaled	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	545	0	TOU Prior Season Reg0 Positive Wh (Quadrant 1+4) Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	545	1	TOU Prior Season Reg0 Quadrant 1 VAh Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	545	2	TOU Prior Season Reg0 Quadrant 1 VARh Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	545	3	TOU Prior Season Reg0 Quadrant 4 VAh Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	545	4	TOU Prior Season Reg0 Quadrant 4 VARh Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	545	5	TOU Prior Season Reg0 Negative Wh (Quadrant 2+3) Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	545	6	TOU Prior Season Reg0 Quadrant 2 VAh Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	545	7	TOU Prior Season Reg0 Quadrant 2 VARh Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	545	8	TOU Prior Season Reg0 Quadrant 3 VAh Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	545	9	TOU Prior Season Reg0 Quadrant 3 VARh Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	546	0-9	TOU Prior Season Reg1 Energy Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	547-552	0-9	TOU Prior Season Reg2-Reg7 Energy Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	553	0-9	TOU Prior Season Total Energy Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	554-562	0-9	TOU Prior Month Reg0-Reg7 & Total Energy Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	563-571	0-9	TOU Current Season Reg0-Reg7 & Total Energy Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	572-580	0-9	TOU Current Month Reg0-Reg7 & Total Energy Scaled Primary	variable (9999 through 999999999 / 0)	variable 10^{6} - 10^{-7}	F36
20	601	0	Total Average Power Factor Initial Wh Q14 (Primary, Binary)	9,999,999,999,999,999 Wh / 0 Wh	1 Wh	F15
20	601	1	Total Average Power Factor Initial WH Q23 (Primary, Binary)	9,999,999,999,999,999 Wh / 0 Wh	1 Wh	F15
20	601	2	Total Average Power Factor Initial VAh Q14 (Primary, Binary)	9,999,999,999,999,999 VAh / 0 VAh	1 VAh	F15
20	601	3	Total Average Power Factor Initial VAh Q23 (Primary, Binary)	9,999,999,999,999,999 VAh / 0 VAh	1 VAh	F15

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
20	602	0	Total Average Power Factor Accumulated Wh Q14 (Primary, Binary)	9,999,999,999,999,999 Wh / 0 Wh	1 Wh	F15
20	602	1	Total Average Power Factor Accumulated Wh Q23 (Primary, Binary)	9,999,999,999,999,999 Wh / 0 Wh	1 Wh	F15
20	602	2	Total Average Power Factor Accumulated VAh Q14 (Primary, Binary)	9,999,999,999,999,999 VAh / 0 VAh	1 VAh	F15
20	602	3	Total Average Power Factor Accumulated VAh Q23, (Primary, Binary)	9,999,999,999,999,999 VAh / 0 VAh	1 VAh	F15
30	599	0	Negative Maximum Block Window Average Aggregation 1	4,294,967,295 / 0	1 Unit	F18
30	599	1-3	Negative Maximum Block Window Average Aggregation 2-4	4,294,967,295 / 0	1 Unit	F18
Object 30 -Analog Input						
30	8	0	Current Day of the Week	Sunday - Saturday		F1
30	18	0	Tenth second Phase A-N Voltage	+3276.7 V / 0 V	0.1 V sec	F4
30	18	1	Tenth second Phase B-N Voltage	+3276.7 V / 0 V	0.1 V sec	F4
30	18	2	Tenth second Phase C-N Voltage	+3276.7 V / 0 V	0.1 V sec	F4
30	19	0	Tenth second Auxiliary Voltage	+3276.7 V / 0 V	0.1 V sec	F4
30	20	0	Tenth second Phase A Current	+32.767 A / 0 A	0.001 A sec	F4
30	20	1	Tenth second Phase B Current	+32.767 A / 0 A	0.001 A sec	F4
30	20	2	Tenth second Phase C Current	+32.767 A / 0 A	0.001 A sec	F4
30	21	0	Tenth second Measured Neutral Current	+32.767 A / 0 A	0.001 A sec	F4
30	22	0	Tenth second Phase A-B Voltage	+3276.7 V / 0 V	0.1 V sec	F4
30	22	1	Tenth second Phase B-C Voltage	+3276.7 V / 0 V	0.1 V sec	F4
30	22	2	Tenth second Phase A-C Voltage	+3276.7 V / 0 V	0.1 V sec	F4
30	23	0	Tenth second Phase A VA	+32767 VA / 0 VA	1 VA sec	F4
30	23	1	Tenth second Phase B VA	+32767 VA / 0 VA	1 VA sec	F4
30	23	2	Tenth second Phase C VA	+32767 VA / 0 VA	1 VA sec	F4
30	24	0	Tenth second Three Phase VA	+32767 VA / 0 VA	1 VA sec	F4
30	25	0	Tenth second Phase A VAR	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	25	1	Tenth second Phase B VAR	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	25	2	Tenth second Phase C VAR	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	26	0	Tenth second Three Phase VAR	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	27	0	Tenth second Phase A Watts	+32768 W / -32768 W	1 W sec	F4
30	27	1	Tenth second Phase B Watts	+32768 W / -32768 W	1 W sec	F4

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	27	2	Tenth second Phase C Watts	+32768 W / -32768 W	1 W sec	F4
30	28	0	Tenth second Three Phase Watts	+32768 W / -32768 W	1 W sec	F4
30	29	0	Tenth second Frequency	+3276.7 Hz / 0 Hz	0.1 Hz	F4
30	30	0	Tenth second Phase A Power Factor	3.999 / 0.000	0.001 PF	F5
30	30	1	Tenth second Phase B Power Factor	3.999 / 0.000	0.001 PF	F5
30	30	2	Tenth second Phase C Power Factor	3.999 / 0.000	0.001 PF	F5
30	31	0	Tenth second Three Phase Power Factor	3.999 / 0.000	0.001 PF	F5
30	32	0	Tenth second Phase A-N Voltage to Auxiliary Voltage Phase Angle	+ 180 / - 180	0.01 degree	F6
30	34	0	One second Phase A-N Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	34	1	One second Phase B-N Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	34	2	One second Phase C-N Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	35	0	One second Auxiliary Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	36	0	One second Phase A Current	+32.767 A / 0 A	0.001 A sec	F4
30	36	1	One second Phase B Current	+ 32768 A / 0 A	0.001 A sec	F4
30	36	2	One second Phase C Current	+ 32768 A / 0 A	0.001 A sec	F4
30	37	0	One second Measured Neutral Current	+ 32768 A / 0 A	0.001 A sec	F4
30	38	0	One second Calculated Neutral Current	+ 32768 A / 0 A	0.001 A sec	F4
30	39	0	One second Phase A-B Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	39	1	One second Phase B-C Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	39	2	One second Phase C-A Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	40	0	One second Phase A VA	+32767 VA / 0 VA	1 VA sec	F4
30	40	1	One second Phase B VA	+32767 VA / 0 VA	1 VA sec	F4
30	40	2	One second Phase C VA	+32767 VA / 0 VA	1 VA sec	F4
30	41	0	One second VA	+32767 VA / 0 VA	1 VA sec	F4
30	42	0	One second Phase A VAR	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	42	1	One second Phase B VAR	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	42	2	One second Phase C VAR	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	43	0	One second Three VAR	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	44	0	One second Phase A Watts	+32768 W / -32768 W	1 W sec	F4

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	44	1	One second Phase B Watts	+32768 W / -32768 W	1 W sec	F4
30	44	2	One second Phase C Watts	+32768 W / -32768 W	1 W sec	F4
30	45	0	One second Watts	+32768 W / -32768 W	1 W sec	F4
30	46	0	One second Frequency	+ 32768 Hz / 0 Hz	0.1 Hz	F4
30	47	0	One second Phase A Power Factor	3.999 / 0	0.001 PF	F5
30	47	1	One second Phase B Power Factor	3.999 / 0	0.001 PF	F5
30	47	2	One second Phase C Power Factor	3.999 / 0	0.001 PF	F5
30	48	0	One second Three Phase Power Factor	3.999 / 0	0.001 PF	F5
30	49	0	One second Voltage Imbalance	+327.67% / -327.68%	0.01%	F7
30	49	1	One second Current Imbalance	+327.67% / -327.68%	0.01%	F7
30	51	0	Thermal Average Phase A-N Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	51	1	Thermal Average Phase B-N Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	51	2	Thermal Average Phase C-N Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	52	0	Thermal Average Auxiliary Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	53	0	Thermal Average Phase A Current	+ 32768 A / 0 A	0.001 A sec	F4
30	53	1	Thermal Average Phase B Current	+ 32768 A / 0 A	0.001 A sec	F4
30	53	2	Thermal Average Phase C Current	+ 32768 A / 0 A	0.001 A sec	F4
30	54	0	Thermal Average Measured Neutral Current	+ 32768 A / 0 A	0.001 A sec	F4
30	55	0	Thermal Average Calculated Neutral Current	+ 32768 A / 0 A	0.001 A sec	F4
30	56	0	Thermal Average Phase A-B Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	56	1	Thermal Average Phase B-C Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	56	2	Thermal Average Phase C-A Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	57	0	Thermal Average Phase A VA	+32767 VA / 0 VA	1 VA sec	F4
30	57	1	Thermal Average Phase B VA	+32767 VA / 0 VA	1 VA sec	F4
30	57	2	Thermal Average Phase C VA	+32767 VA / 0 VA	1 VA sec	F4
30	58	0	Thermal Average VA	+32767 VA / 0 VA	1 VA sec	F4
30	59	0	Thermal Average Phase A VAR	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	59	1	Thermal Average Phase B VAR	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	58	2	Thermal Average Phase C VAR	+32768 VAR / -32768 VAR	1 VAR sec	F4

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	60	0	Thermal Average VAR	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	61	0	Thermal Average Phase A Watts	+32768 W / -32768 W	1 W sec	F4
30	61	1	Thermal Average Phase B Watts	+32768 W / -32768 W	1 W sec	F4
30	61	2	Thermal Average Phase C Watts	+32768 W / -32768 W	1 W sec	F4
30	62	0	Thermal Average Watts	+32768 W / -32768 W	1 W sec	F4
30	63	0	Thermal Average Frequency	+ 32768 Hz / 0 Hz	0.1 Hz	F4
30	64	0	Thermal Average Phase A Power Factor	3.999 / 0	0.001 PF	F5
30	64	1	Thermal Average Phase B Power Factor	3.999 / 0	0.001 PF	F5
30	64	2	Thermal Average Phase C Power Factor	3.999 / 0	0.001 PF	F5
30	65	0	Thermal Average Power Factor	3.999 / 0	0.001 PF	F5
30	66	0	Thermal Average Voltage Imbalance	+327.67% / -327.68%	0.01%	F7
30	66	1	Thermal Average Current Imbalance	+327.67% / -327.68%	0.01%	F7
30	68	0	Maximum Thermal Average Phase A-N Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	68	1	Maximum Thermal Average Phase B-N Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	68	2	Maximum Thermal Average Phase C-N Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	69	0	Maximum Thermal Average Auxiliary Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	70	0	Maximum Thermal Average Phase A Current	+ 32768 A / 0 A	0.001 A sec	F4
30	70	1	Maximum Thermal Average Phase B Current	+ 32768 A / 0 A	0.001 A sec	F4
30	70	2	Maximum Thermal Average Phase C Current	+ 32768 A / 0 A	0.001 A sec	F4
30	71	0	Maximum Thermal Average Measured Neutral Current	+ 32768 A / 0 A	0.001 A sec	F4
30	72	0	Maximum Thermal Average Calculated Neutral Current	+ 32768 A / 0 A	0.001 A sec	F4
30	73	0	Maximum Thermal Average Phase A-B Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	73	1	Maximum Thermal Average Phase B-C Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	73	2	Maximum Thermal Average Phase C-A Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	74	0	Maximum Thermal Average Phase A VA	+32767 VA / 0 VA	1 VA sec	F4
30	74	1	Maximum Thermal Average Phase B VA	+32767 VA / 0 VA	1 VA sec	F4
30	74	2	Maximum Thermal Average Phase C VA	+32767 VA / 0 VA	1 VA sec	F4
30	75	0	Maximum Thermal Average VA	+32767 VA / 0 VA	1 VA sec	F4
30	76	0	Maximum Thermal Average Phase A Positive VAR	+32767 VAR / -32768 VAR	1 VAR sec	F4

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	76	1	Maximum Thermal Average Phase B Positive VAR	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	76	2	Maximum Thermal Average Phase C Positive VAR	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	77	0	Maximum Thermal Average Positive VAR	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	78	0	Maximum Thermal Average Phase A Negative VAR	0 VAR / -32768 VAR	1 VAR sec	F4
30	78	1	Maximum Thermal Average Phase B Negative VAR	0 VAR / -32768 VAR	1 VAR sec	F4
30	78	2	Maximum Thermal Average Phase C Negative VAR	0 VAR / -32768 VAR	1 VAR sec	F4
30	79	0	Maximum Thermal Average Negative VAR	0 VAR / -32768 VAR	1 VAR sec	F4
30	80	0	Maximum Thermal Average Phase A Watts Positive	+32767 W / -32768 W	1 W sec	F4
30	80	1	Maximum Thermal Average Phase B Watts Positive	+32767 W / -32768 W	1 W sec	F4
30	80	2	Maximum Thermal Average Phase C Watts Positive	+32767 W / -32768 W	1 W sec	F4
30	81	0	Maximum Thermal Average Positive Watts	+32767 W / -32768 W	1 W sec	F4
30	82	0	Maximum Thermal Average Phase A Watts Negative	0 W / -32768 W	1 W sec	F4
30	82	1	Maximum Thermal Average Phase B Watts Negative	0 W / -32768 W	1 W sec	F4
30	82	2	Maximum Thermal Average Phase C Watts Negative	0 W / -32768 W	1 W sec	F4
30	83	0	Maximum Thermal Average Negative Watts	0 W / -32768 W	1 W sec	F4
30	84	0	Maximum Thermal Average Frequency	+ 32768 Hz / 0 Hz	0.1 Hz	F4
30	85	0	Maximum Thermal Average Phase A Power Factor Quadrant 1	0.999 / 0	0.001 PF	F5
30	85	1	Maximum Thermal Average Phase B Power Factor Quadrant 1	0.999 / 0	0.001 PF	F5
30	85	2	Maximum Thermal Average Phase C Power Factor Quadrant 1	0.999 / 0	0.001 PF	F5
30	86	0	Maximum Thermal Average Power Factor Quadrant 1	0.999 / 0	0.001 PF	F5
30	87	0	Maximum Thermal Average Phase A Power Factor Quadrant 2	1.999 / /1.000	0.001 PF	F5
30	87	1	Maximum Thermal Average Phase B Power Factor Quadrant 2	1.999 / /1.000	0.001 PF	F5
30	87	2	Maximum Thermal Average Phase C Power Factor Quadrant 2	1.999 / /1.000	0.001 PF	F5
30	88	0	Maximum Thermal Average Power Factor Quadrant 2	1.999 / /1.000	0.001 PF	F5
30	89	0	Maximum Thermal Average Phase A Power Factor Quadrant 3	2.999 / 2.000	0.001 PF	F5
30	89	1	Maximum Thermal Average Phase B Power Factor Quadrant 3	2.999 / 2.000	0.001 PF	F5
30	89	2	Maximum Thermal Average Phase C Power Factor Quadrant 3	2.999 / 2.000	0.001 PF	F5
30	90	0	Maximum Thermal Average Power Factor Quadrant 3	2.999 / 2.000	0.001 PF	F5
30	91	0	Maximum Thermal Average Phase A Power Factor Quadrant 4	3.999 / 3.000	0.001 PF	F5

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	91	1	Maximum Thermal Average Phase B Power Factor Quadrant 4	3.999 / 3.000	0.001 PF	F5
30	91	2	Maximum Thermal Average Phase C Power Factor Quadrant 4	3.999 / 3.000	0.001 PF	F5
30	92	0	Maximum Thermal Average Power Factor Quadrant 4	3.999 / 3.000	0.001 PF	F5
30	93	0	Maximum Thermal Average Voltage Imbalance	+327.67% / -327.68%	0.01%	F7
30	93	1	Maximum Thermal Average Current Imbalance	+327.67% / -327.68%	0.01%	F7
30	94	0	Maximum THD Phase A-N / A-B Voltage	+327.67% / -327.68%	0.01%	F7
30	94	1	Maximum THD Phase B-N / B-C Voltage	+327.67% / -327.68%	0.01%	F7
30	94	2	Maximum THD Phase C-N / C-A Voltage	+327.67% / -327.68%	0.01%	F7
30	95	0	Maximum THD Phase A Current	+327.67% / -327.68%	0.01%	F7
30	95	1	Maximum THD Phase B Current	+327.67% / -327.68%	0.01%	F7
30	95	2	Maximum THD Phase C Current	+327.67% / -327.68%	0.01%	F7
30	96	0	Maximum K-Factor Phase A Current	+327.67% / -327.68%	0.01%	F7
30	96	1	Maximum K-Factor Phase B Current	+327.67% / -327.68%	0.01%	F7
30	96	2	Maximum K-Factor Phase C Current	+327.67% / -327.68%	0.01%	F7
30	97	0	Coincident Thermal Average VAR for Maximum Positive Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	97	1	Coincident Thermal Average VAR for Maximum Negative Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	99	0	Minimum Thermal Average Phase A-N Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	99	1	Minimum Thermal Average Phase B-N Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	99	2	Minimum Thermal Average Phase C-N Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	100	0	Minimum Thermal Average Auxiliary Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	101	0	Minimum Thermal Average Phase A Current	+ 32768 A / 0 A	0.001 A sec	F4
30	101	1	Minimum Thermal Average Phase B Current	+ 32768 A / 0 A	0.001 A sec	F4
30	101	2	Minimum Thermal Average Phase C Current	+ 32768 A / 0 A	0.001 A sec	F4
30	102	0	Minimum Thermal Average Measured Neutral Current	+ 32768 A / 0 A	0.001 A sec	F4
30	103	0	Minimum Thermal Average Calculated Neutral Current	+ 32768 A / 0 A	0.001 A sec	F4
30	104	0	Minimum Thermal Average Phase A-B Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	104	1	Minimum Thermal Average Phase B-C Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	104	2	Minimum Thermal Average Phase C-A Voltage	+ 32768 V / 0 V	0.1 V sec	F4
30	105	0	Minimum Thermal Average Phase A VA	+32767 VA / 0 VA	1 VA sec	F4

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	105	1	Minimum Thermal Average Phase B VA	+32767 VA / 0 VA	1 VA sec	F4
30	105	2	Minimum Thermal Average Phase C VA	+32767 VA / 0 VA	1 VA sec	F4
30	106	0	Minimum Thermal Average VA	+32767 VA / 0 VA	1 VA sec	F4
30	107	0	Minimum Thermal Average Phase A Positive VAR	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	107	1	Minimum Thermal Average Phase B Positive VAR	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	107	2	Minimum Thermal Average Phase C Positive VAR	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	108	0	Minimum Thermal Average Positive VAR	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	109	0	Minimum Thermal Average Phase A Negative VAR	0 VAR / -32768 VAR	1 VAR sec	F4
30	109	1	Minimum Thermal Average Phase B Negative VAR	0 VAR / -32768 VAR	1 VAR sec	F4
30	109	2	Minimum Thermal Average Phase C Negative VAR	0 VAR / -32768 VAR	1 VAR sec	F4
30	110	0	Minimum Thermal Average Negative VAR	0 VAR / -32768 VAR	1 VAR sec	F4
30	111	0	Minimum Thermal Average Phase A Positive Watts	+32767 W / -32768 W	1 W sec	F4
30	111	1	Minimum Thermal Average Phase B Positive Watts	+32767 W / -32768 W	1 W sec	F4
30	111	2	Minimum Thermal Average Phase C Positive Watts	+32767 W / -32768 W	1 W sec	F4
30	112	0	Minimum Thermal Average Positive Watts	+32767 W / -32768 W	1 W sec	F4
30	113	0	Minimum Thermal Average Phase A Negative Watts	0 W / -32768 W	1 W sec	F4
30	113	1	Minimum Thermal Average Phase B Negative Watts	0 W / -32768 W	1 W sec	F4
30	113	2	Minimum Thermal Average Phase C Negative Watts	0 W / -32768 W	1 W sec	F4
30	114	0	Minimum Thermal Average Negative Watts	0 W / -32768 W	1 W sec	F4
30	115	0	Minimum Thermal Average Frequency	+ 32768 Hz / 0 Hz	0.1 Hz	F4
30	116	0	Minimum Thermal Average Phase A Power Factor Quadrant 1	0.999 / 0	0.001 PF	F5
30	116	1	Minimum Thermal Average Phase B Power Factor Quadrant 1	0.999 / 0	0.001 PF	F5
30	116	2	Minimum Thermal Average Phase C Power Factor Quadrant 1	0.999 / 0	0.001 PF	F5
30	117	0	Minimum Thermal Average Power Factor Quadrant 1	0.999 / 0	0.001 PF	F5
30	118	0	Minimum Thermal Average Phase A Power Factor Quadrant 2	1.999 / /1.000	0.001 PF	F5
30	118	1	Minimum Thermal Average Phase B Power Factor Quadrant 2	1.999 / /1.000	0.001 PF	F5
30	118	2	Minimum Thermal Average Phase C Power Factor Quadrant 2	1.999 / /1.000	0.001 PF	F5
30	119	0	Minimum Thermal Average Power Factor Quadrant 2	1.999 / /1.000	0.001 PF	F5
30	120	0	Minimum Thermal Average Phase A Power Factor Quadrant 3	2.999 / 2.000	0.001 PF	F5

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	120	1	Minimum Thermal Average Phase B Power Factor Quadrant 3	2.999 / 2.000	0.001 PF	F5
30	120	2	Minimum Thermal Average Phase C Power Factor Quadrant 3	2.999 / 2.000	0.001 PF	F5
30	121	0	Minimum Thermal Average Power Factor Quadrant 3	2.999 / 2.000	0.001 PF	F5
30	122	0	Minimum Thermal Average Phase A Power Factor Quadrant 4	3.999 / 3.000	0.001 PF	F5
30	122	1	Minimum Thermal Average Phase B Power Factor Quadrant 4	3.999 / 3.000	0.001 PF	F5
30	122	2	Minimum Thermal Average Phase C Power Factor Quadrant 4	3.999 / 3.000	0.001 PF	F5
30	123	0	Minimum Thermal Average Power Factor Quadrant 4	3.999 / 3.000	0.001 PF	F5
30	124	0	Minimum Thermal Average Voltage Imbalance	+327.67% / -327.68%	0.01%	F7
30	124	1	Minimum Thermal Average Current Imbalance	+327.67% / -327.68%	0.01%	F7
30	125	0	Minimum THD Phase A-N Voltage / Phase A-B Voltage	+327.67% / -327.68%	0.01%	F7
30	125	1	Minimum THD Phase B-N Voltage / Phase B-C Voltage	+327.67% / -327.68%	0.01%	F7
30	125	2	Minimum THD Phase C-N Voltage / Phase C-A Voltage	+327.67% / -327.68%	0.01%	F7
30	126	0	Minimum THD Phase A Current	+327.67% / -327.68%	0.01%	F7
30	126	1	Minimum THD Phase B Current	+327.67% / -327.68%	0.01%	F7
30	126	2	Minimum THD Phase C Current	+327.67% / -327.68%	0.01%	F7
30	127	0	Minimum K-Factor Phase A Current	+327.67% / -327.68%	0.01%	F7
30	127	1	Minimum K-Factor Phase B Current	+327.67% / -327.68%	0.01%	F7
30	127	2	Minimum K-Factor Phase C Current	+327.67% / -327.68%	0.01%	F7
30	128	0	Coincident Thermal Average VAR for Minimum Positive Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	128	1	Coincident Thermal Average VAR for Minimum Negative Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	134	0	Phase A-N / Phase A-B Voltage 0th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	134	1	Phase A-N / Phase A-B Voltage 1st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	134	2	Phase A-N / Phase A-B Voltage 2nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	134	3	Phase A-N / Phase A-B Voltage 3rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	134	4	Phase A-N / Phase A-B Voltage 4th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	134	5	Phase A-N / Phase A-B Voltage 5th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	134	6	Phase A-N / Phase A-B Voltage 6th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	134	7	Phase A-N / Phase A-B Voltage 7th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	135	0	Phase A-N / Phase A-B Voltage 8th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	135	1	Phase A-N / Phase A-B Voltage 9th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	135	2	Phase A-N / Phase A-B Voltage 10th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	135	3	Phase A-N / Phase A-B Voltage 11th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	135	4	Phase A-N / Phase A-B Voltage 12th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	135	5	Phase A-N / Phase A-B Voltage 13th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	135	6	Phase A-N / Phase A-B Voltage 14th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	135	7	Phase A-N / Phase A-B Voltage 15th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	136	0	Phase A-N / Phase A-B Voltage 16th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	136	1	Phase A-N / Phase A-B Voltage 17th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	136	2	Phase A-N / Phase A-B Voltage 18th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	136	3	Phase A-N / Phase A-B Voltage 19th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	136	4	Phase A-N / Phase A-B Voltage 20th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	136	5	Phase A-N / Phase A-B Voltage 21st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	136	6	Phase A-N / Phase A-B Voltage 22nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	136	7	Phase A-N / Phase A-B Voltage 23rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	136	8	Phase A-N / Phase A-B Voltage 24th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	136	9	Phase A-N / Phase A-B Voltage 25th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	136	10	Phase A-N / Phase A-B Voltage 26th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	136	11	Phase A-N / Phase A-B Voltage 27th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	136	12	Phase A-N / Phase A-B Voltage 28th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	136	13	Phase A-N / Phase A-B Voltage 29th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	136	14	Phase A-N / Phase A-B Voltage 30th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	136	15	Phase A-N / Phase A-B Voltage 31st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	0	Phase A-N / Phase A-B Voltage 32nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	1	Phase A-N / Phase A-B Voltage 33rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	2	Phase A-N / Phase A-B Voltage 34th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	3	Phase A-N / Phase A-B Voltage 35th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	4	Phase A-N / Phase A-B Voltage 36th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	5	Phase A-N / Phase A-B Voltage 37th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	137	6	Phase A-N / Phase A-B Voltage 38th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	7	Phase A-N / Phase A-B Voltage 39th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	8	Phase A-N / Phase A-B Voltage 40th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	9	Phase A-N / Phase A-B Voltage 41st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	10	Phase A-N / Phase A-B Voltage 42nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	11	Phase A-N / Phase A-B Voltage 43rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	12	Phase A-N / Phase A-B Voltage 44th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	13	Phase A-N / Phase A-B Voltage 45th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	14	Phase A-N / Phase A-B Voltage 46th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	15	Phase A-N / Phase A-B Voltage 47th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	16	Phase A-N / Phase A-B Voltage 48th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	17	Phase A-N / Phase A-B Voltage 49th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	18	Phase A-N / Phase A-B Voltage 50th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	19	Phase A-N / Phase A-B Voltage 51st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	20	Phase A-N / Phase A-B Voltage 52nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	21	Phase A-N / Phase A-B Voltage 53rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	22	Phase A-N / Phase A-B Voltage 54th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	23	Phase A-N / Phase A-B Voltage 55th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	24	Phase A-N / Phase A-B Voltage 56th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	25	Phase A-N / Phase A-B Voltage 57th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	26	Phase A-N / Phase A-B Voltage 58th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	27	Phase A-N / Phase A-B Voltage 59th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	28	Phase A-N / Phase A-B Voltage 60th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	29	Phase A-N / Phase A-B Voltage 61st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	30	Phase A-N / Phase A-B Voltage 62nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	137	31	Phase A-N / Phase A-B Voltage 63rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	0	Phase A-N / Phase A-B Voltage 64th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	1	Phase A-N / Phase A-B Voltage 65th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	2	Phase A-N / Phase A-B Voltage 66th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	138	3	Phase A-N / Phase A-B Voltage 67th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	4	Phase A-N / Phase A-B Voltage 68th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	5	Phase A-N / Phase A-B Voltage 69th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	6	Phase A-N / Phase A-B Voltage 70th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	7	Phase A-N / Phase A-B Voltage 71st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	8	Phase A-N / Phase A-B Voltage 72nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	9	Phase A-N / Phase A-B Voltage 73rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	10	Phase A-N / Phase A-B Voltage 74th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	11	Phase A-N / Phase A-B Voltage 75th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	12	Phase A-N / Phase A-B Voltage 76th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	13	Phase A-N / Phase A-B Voltage 77th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	14	Phase A-N / Phase A-B Voltage 78th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	15	Phase A-N / Phase A-B Voltage 79th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	16	Phase A-N / Phase A-B Voltage 80th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	17	Phase A-N / Phase A-B Voltage 81st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	18	Phase A-N / Phase A-B Voltage 82nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	19	Phase A-N / Phase A-B Voltage 83rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	20	Phase A-N / Phase A-B Voltage 84th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	21	Phase A-N / Phase A-B Voltage 85th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	22	Phase A-N / Phase A-B Voltage 86th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	23	Phase A-N / Phase A-B Voltage 87th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	24	Phase A-N / Phase A-B Voltage 88th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	25	Phase A-N / Phase A-B Voltage 89th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	26	Phase A-N / Phase A-B Voltage 90th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	27	Phase A-N / Phase A-B Voltage 91st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	28	Phase A-N / Phase A-B Voltage 92nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	29	Phase A-N / Phase A-B Voltage 93rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	30	Phase A-N / Phase A-B Voltage 94th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	31	Phase A-N / Phase A-B Voltage 95th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	138	32	Phase A-N / Phase A-B Voltage 96th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	33	Phase A-N / Phase A-B Voltage 97th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	34	Phase A-N / Phase A-B Voltage 98th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	35	Phase A-N / Phase A-B Voltage 99th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	36	Phase A-N / Phase A-B Voltage 100th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	37	Phase A-N / Phase A-B Voltage 101st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	38	Phase A-N / Phase A-B Voltage 102nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	39	Phase A-N / Phase A-B Voltage 103rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	40	Phase A-N / Phase A-B Voltage 104th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	41	Phase A-N / Phase A-B Voltage 105th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	42	Phase A-N / Phase A-B Voltage 106th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	43	Phase A-N / Phase A-B Voltage 107th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	44	Phase A-N / Phase A-B Voltage 108th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	45	Phase A-N / Phase A-B Voltage 109th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	46	Phase A-N / Phase A-B Voltage 110th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	47	Phase A-N / Phase A-B Voltage 111th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	48	Phase A-N / Phase A-B Voltage 112th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	49	Phase A-N / Phase A-B Voltage 113th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	50	Phase A-N / Phase A-B Voltage 114th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	51	Phase A-N / Phase A-B Voltage 115th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	52	Phase A-N / Phase A-B Voltage 116th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	53	Phase A-N / Phase A-B Voltage 117th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	54	Phase A-N / Phase A-B Voltage 118th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	55	Phase A-N / Phase A-B Voltage 119th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	56	Phase A-N / Phase A-B Voltage 120th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	57	Phase A-N / Phase A-B Voltage 121st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	58	Phase A-N / Phase A-B Voltage 122nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	59	Phase A-N / Phase A-B Voltage 123rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	60	Phase A-N / Phase A-B Voltage 124th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	138	61	Phase A-N / Phase A-B Voltage 125th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	62	Phase A-N / Phase A-B Voltage 126th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	138	63	Phase A-N / Phase A-B Voltage 127th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	139	0	Phase B-N / Phase B-C Voltage 0th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	139	1	Phase B-N / Phase B-C Voltage 1st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	139	2	Phase B-N / Phase B-C Voltage 2nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	139	3	Phase B-N / Phase B-C Voltage 3rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	139	4	Phase B-N / Phase B-C Voltage 4th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	139	5	Phase B-N / Phase B-C Voltage 5th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	139	6	Phase B-N / Phase B-C Voltage 6th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	139	7	Phase B-N / Phase B-C Voltage 7th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	140	0	Phase B-N / Phase B-C Voltage 8th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	140	1	Phase B-N / Phase B-C Voltage 9th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	140	2	Phase B-N / Phase B-C Voltage 10th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	140	3	Phase B-N / Phase B-C Voltage 11th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	140	4	Phase B-N / Phase B-C Voltage 12th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	140	5	Phase B-N / Phase B-C Voltage 13th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	140	6	Phase B-N / Phase B-C Voltage 14th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	140	7	Phase B-N / Phase B-C Voltage 15th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	141	0	Phase B-N / Phase B-C Voltage 16th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	141	1	Phase B-N / Phase B-C Voltage 17th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	141	2	Phase B-N / Phase B-C Voltage 18th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	141	3	Phase B-N / Phase B-C Voltage 19th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	141	4	Phase B-N / Phase B-C Voltage 20th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	141	5	Phase B-N / Phase B-C Voltage 21st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	141	6	Phase B-N / Phase B-C Voltage 22nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	141	7	Phase B-N / Phase B-C Voltage 23rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	141	8	Phase B-N / Phase B-C Voltage 24th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	141	9	Phase B-N / Phase B-C Voltage 25th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	141	10	Phase B-N / Phase B-C Voltage 26th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	141	11	Phase B-N / Phase B-C Voltage 27th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	141	12	Phase B-N / Phase B-C Voltage 28th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	141	13	Phase B-N / Phase B-C Voltage 29th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	141	14	Phase B-N / Phase B-C Voltage 30th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	141	15	Phase B-N / Phase B-C Voltage 31st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	0	Phase B-N / Phase B-C Voltage 32nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	1	Phase B-N / Phase B-C Voltage 33rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	2	Phase B-N / Phase B-C Voltage 34th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	3	Phase B-N / Phase B-C Voltage 35th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	4	Phase B-N / Phase B-C Voltage 36th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	5	Phase B-N / Phase B-C Voltage 37th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	6	Phase B-N / Phase B-C Voltage 38th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	7	Phase B-N / Phase B-C Voltage 39th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	8	Phase B-N / Phase B-C Voltage 40th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	9	Phase B-N / Phase B-C Voltage 41st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	10	Phase B-N / Phase B-C Voltage 42nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	11	Phase B-N / Phase B-C Voltage 43rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	12	Phase B-N / Phase B-C Voltage 44th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	13	Phase B-N / Phase B-C Voltage 45th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	14	Phase B-N / Phase B-C Voltage 46th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	15	Phase B-N / Phase B-C Voltage 47th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	16	Phase B-N / Phase B-C Voltage 48th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	17	Phase B-N / Phase B-C Voltage 49th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	18	Phase B-N / Phase B-C Voltage 50th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	19	Phase B-N / Phase B-C Voltage 51st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	20	Phase B-N / Phase B-C Voltage 52nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	21	Phase B-N / Phase B-C Voltage 53rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	22	Phase B-N / Phase B-C Voltage 54th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	142	23	Phase B-N / Phase B-C Voltage 55th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	24	Phase B-N / Phase B-C Voltage 56th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	25	Phase B-N / Phase B-C Voltage 57th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	26	Phase B-N / Phase B-C Voltage 58th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	27	Phase B-N / Phase B-C Voltage 59th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	28	Phase B-N / Phase B-C Voltage 60th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	29	Phase B-N / Phase B-C Voltage 61st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	30	Phase B-N / Phase B-C Voltage 62nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	142	31	Phase B-N / Phase B-C Voltage 63rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	0	Phase B-N / Phase B-C Voltage 64th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	1	Phase B-N / Phase B-C Voltage 65th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	2	Phase B-N / Phase B-C Voltage 66th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	3	Phase B-N / Phase B-C Voltage 67th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	4	Phase B-N / Phase B-C Voltage 68th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	5	Phase B-N / Phase B-C Voltage 69th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	6	Phase B-N / Phase B-C Voltage 70th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	7	Phase B-N / Phase B-C Voltage 71st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	8	Phase B-N / Phase B-C Voltage 72nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	9	Phase B-N / Phase B-C Voltage 73rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	10	Phase B-N / Phase B-C Voltage 74th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	11	Phase B-N / Phase B-C Voltage 75th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	12	Phase B-N / Phase B-C Voltage 76th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	13	Phase B-N / Phase B-C Voltage 77th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	14	Phase B-N / Phase B-C Voltage 78th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	15	Phase B-N / Phase B-C Voltage 79th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	16	Phase B-N / Phase B-C Voltage 80th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	17	Phase B-N / Phase B-C Voltage 81st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	18	Phase B-N / Phase B-C Voltage 82nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	19	Phase B-N / Phase B-C Voltage 83rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	143	20	Phase B-N / Phase B-C Voltage 84th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	21	Phase B-N / Phase B-C Voltage 85th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	22	Phase B-N / Phase B-C Voltage 86th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	23	Phase B-N / Phase B-C Voltage 87th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	24	Phase B-N / Phase B-C Voltage 88th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	25	Phase B-N / Phase B-C Voltage 89th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	26	Phase B-N / Phase B-C Voltage 90th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	27	Phase B-N / Phase B-C Voltage 91st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	28	Phase B-N / Phase B-C Voltage 92nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	29	Phase B-N / Phase B-C Voltage 93rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	30	Phase B-N / Phase B-C Voltage 94th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	31	Phase B-N / Phase B-C Voltage 95th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	32	Phase B-N / Phase B-C Voltage 96th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	33	Phase B-N / Phase B-C Voltage 97th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	34	Phase B-N / Phase B-C Voltage 98th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	35	Phase B-N / Phase B-C Voltage 99th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	36	Phase B-N / Phase B-C Voltage 100th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	37	Phase B-N / Phase B-C Voltage 101st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	38	Phase B-N / Phase B-C Voltage 102nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	39	Phase B-N / Phase B-C Voltage 103rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	40	Phase B-N / Phase B-C Voltage 104th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	41	Phase B-N / Phase B-C Voltage 105th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	42	Phase B-N / Phase B-C Voltage 106th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	43	Phase B-N / Phase B-C Voltage 107th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	44	Phase B-N / Phase B-C Voltage 108th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	45	Phase B-N / Phase B-C Voltage 109th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	46	Phase B-N / Phase B-C Voltage 110th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	47	Phase B-N / Phase B-C Voltage 111th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	48	Phase B-N / Phase B-C Voltage 112th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	143	49	Phase B-N / Phase B-C Voltage 113th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	50	Phase B-N / Phase B-C Voltage 114th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	51	Phase B-N / Phase B-C Voltage 115th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	52	Phase B-N / Phase B-C Voltage 116th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	53	Phase B-N / Phase B-C Voltage 117th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	54	Phase B-N / Phase B-C Voltage 118th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	55	Phase B-N / Phase B-C Voltage 119th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	56	Phase B-N / Phase B-C Voltage 120th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	57	Phase B-N / Phase B-C Voltage 121st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	58	Phase B-N / Phase B-C Voltage 122nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	59	Phase B-N / Phase B-C Voltage 123rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	60	Phase B-N / Phase B-C Voltage 124th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	61	Phase B-N / Phase B-C Voltage 125th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	62	Phase B-N / Phase B-C Voltage 126th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	143	63	Phase B-N / Phase B-C Voltage 127th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	144	0	Phase C-N / Phase C-A Voltage 0th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	144	1	Phase C-N / Phase C-A Voltage 1st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	144	2	Phase C-N / Phase C-A Voltage 2nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	144	3	Phase C-N / Phase C-A Voltage 3rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	144	4	Phase C-N / Phase C-A Voltage 4th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	144	5	Phase C-N / Phase C-A Voltage 5th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	144	6	Phase C-N / Phase C-A Voltage 6th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	144	7	Phase C-N / Phase C-A Voltage 7th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	145	0	Phase C-N / Phase C-A Voltage 8th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	145	1	Phase C-N / Phase C-A Voltage 9th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	145	2	Phase C-N / Phase C-A Voltage 10th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	145	3	Phase C-N / Phase C-A Voltage 11th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	145	4	Phase C-N / Phase C-A Voltage 12th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	145	5	Phase C-N / Phase C-A Voltage 13th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	145	6	Phase C-N / Phase C-A Voltage 14th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	145	7	Phase C-N / Phase C-A Voltage 15th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	146	0	Phase C-N / Phase C-A Voltage 16th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	146	1	Phase C-N / Phase C-A Voltage 17th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	146	2	Phase C-N / Phase C-A Voltage 18th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	146	3	Phase C-N / Phase C-A Voltage 19th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	146	4	Phase C-N / Phase C-A Voltage 20th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	146	5	Phase C-N / Phase C-A Voltage 21st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	146	6	Phase C-N / Phase C-A Voltage 22nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	146	7	Phase C-N / Phase C-A Voltage 23rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	146	8	Phase C-N / Phase C-A Voltage 24th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	146	9	Phase C-N / Phase C-A Voltage 25th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	146	10	Phase C-N / Phase C-A Voltage 26th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	146	11	Phase C-N / Phase C-A Voltage 27th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	146	12	Phase C-N / Phase C-A Voltage 28th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	146	13	Phase C-N / Phase C-A Voltage 29th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	146	14	Phase C-N / Phase C-A Voltage 30th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	146	15	Phase C-N / Phase C-A Voltage 31st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	0	Phase C-N / Phase C-A Voltage 32nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	1	Phase C-N / Phase C-A Voltage 33rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	2	Phase C-N / Phase C-A Voltage 34th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	3	Phase C-N / Phase C-A Voltage 35th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	4	Phase C-N / Phase C-A Voltage 36th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	5	Phase C-N / Phase C-A Voltage 37th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	6	Phase C-N / Phase C-A Voltage 38th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	7	Phase C-N / Phase C-A Voltage 39th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	8	Phase C-N / Phase C-A Voltage 40th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	9	Phase C-N / Phase C-A Voltage 41st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	10	Phase C-N / Phase C-A Voltage 42nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	147	11	Phase C-N / Phase C-A Voltage 43rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	12	Phase C-N / Phase C-A Voltage 44th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	13	Phase C-N / Phase C-A Voltage 45th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	14	Phase C-N / Phase C-A Voltage 46th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	15	Phase C-N / Phase C-A Voltage 47th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	16	Phase C-N / Phase C-A Voltage 48th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	17	Phase C-N / Phase C-A Voltage 49th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	18	Phase C-N / Phase C-A Voltage 50th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	19	Phase C-N / Phase C-A Voltage 51st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	20	Phase C-N / Phase C-A Voltage 52nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	21	Phase C-N / Phase C-A Voltage 53rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	22	Phase C-N / Phase C-A Voltage 54th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	23	Phase C-N / Phase C-A Voltage 55th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	24	Phase C-N / Phase C-A Voltage 56th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	25	Phase C-N / Phase C-A Voltage 57th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	26	Phase C-N / Phase C-A Voltage 58th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	27	Phase C-N / Phase C-A Voltage 59th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	28	Phase C-N / Phase C-A Voltage 60th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	29	Phase C-N / Phase C-A Voltage 61st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	30	Phase C-N / Phase C-A Voltage 62nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	147	31	Phase C-N / Phase C-A Voltage 63rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	0	Phase C-N / Phase C-A Voltage 64th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	1	Phase C-N / Phase C-A Voltage 65th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	2	Phase C-N / Phase C-A Voltage 66th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	3	Phase C-N / Phase C-A Voltage 67th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	4	Phase C-N / Phase C-A Voltage 68th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	5	Phase C-N / Phase C-A Voltage 69th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	6	Phase C-N / Phase C-A Voltage 70th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	7	Phase C-N / Phase C-A Voltage 71st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	148	8	Phase C-N / Phase C-A Voltage 72nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	9	Phase C-N / Phase C-A Voltage 73rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	10	Phase C-N / Phase C-A Voltage 74th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	11	Phase C-N / Phase C-A Voltage 75th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	12	Phase C-N / Phase C-A Voltage 76th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	13	Phase C-N / Phase C-A Voltage 77th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	14	Phase C-N / Phase C-A Voltage 78th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	15	Phase C-N / Phase C-A Voltage 79th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	16	Phase C-N / Phase C-A Voltage 80th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	17	Phase C-N / Phase C-A Voltage 81st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	18	Phase C-N / Phase C-A Voltage 82nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	19	Phase C-N / Phase C-A Voltage 83rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	20	Phase C-N / Phase C-A Voltage 84th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	21	Phase C-N / Phase C-A Voltage 85th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	22	Phase C-N / Phase C-A Voltage 86th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	23	Phase C-N / Phase C-A Voltage 87th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	24	Phase C-N / Phase C-A Voltage 88th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	25	Phase C-N / Phase C-A Voltage 89th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	26	Phase C-N / Phase C-A Voltage 90th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	27	Phase C-N / Phase C-A Voltage 91st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	28	Phase C-N / Phase C-A Voltage 92nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	29	Phase C-N / Phase C-A Voltage 93rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	30	Phase C-N / Phase C-A Voltage 94th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	31	Phase C-N / Phase C-A Voltage 95th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	32	Phase C-N / Phase C-A Voltage 96th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	33	Phase C-N / Phase C-A Voltage 97th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	34	Phase C-N / Phase C-A Voltage 98th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	35	Phase C-N / Phase C-A Voltage 99th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	36	Phase C-N / Phase C-A Voltage 100th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	148	37	Phase C-N / Phase C-A Voltage 101st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	38	Phase C-N / Phase C-A Voltage 102nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	39	Phase C-N / Phase C-A Voltage 103rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	40	Phase C-N / Phase C-A Voltage 104th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	41	Phase C-N / Phase C-A Voltage 105th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	42	Phase C-N / Phase C-A Voltage 106th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	43	Phase C-N / Phase C-A Voltage 107th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	44	Phase C-N / Phase C-A Voltage 108th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	45	Phase C-N / Phase C-A Voltage 109th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	46	Phase C-N / Phase C-A Voltage 110th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	47	Phase C-N / Phase C-A Voltage 111th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	48	Phase C-N / Phase C-A Voltage 112th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	49	Phase C-N / Phase C-A Voltage 113th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	50	Phase C-N / Phase C-A Voltage 114th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	51	Phase C-N / Phase C-A Voltage 115th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	52	Phase C-N / Phase C-A Voltage 116th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	53	Phase C-N / Phase C-A Voltage 117th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	54	Phase C-N / Phase C-A Voltage 118th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	55	Phase C-N / Phase C-A Voltage 119th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	56	Phase C-N / Phase C-A Voltage 120th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	57	Phase C-N / Phase C-A Voltage 121st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	58	Phase C-N / Phase C-A Voltage 122nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	59	Phase C-N / Phase C-A Voltage 123rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	60	Phase C-N / Phase C-A Voltage 124th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	61	Phase C-N / Phase C-A Voltage 125th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	62	Phase C-N / Phase C-A Voltage 126th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	148	63	Phase C-N / Phase C-A Voltage 127th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	149	0	Phase A Current 0th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	149	1	Phase A Current 1st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	149	2	Phase A Current 2nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	149	3	Phase A Current 3rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	149	4	Phase A Current 4th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	149	5	Phase A Current 5th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	149	6	Phase A Current 6th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	149	7	Phase A Current 7th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	150	0	Phase A Current 8th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	150	1	Phase A Current 9th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	150	2	Phase A Current 10th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	150	3	Phase A Current 11th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	150	4	Phase A Current 12th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	150	5	Phase A Current 13th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	150	6	Phase A Current 14th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	150	7	Phase A Current 15th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	151	0	Phase A Current 16th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	151	1	Phase A Current 17th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	151	2	Phase A Current 18th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	151	3	Phase A Current 19th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	151	4	Phase A Current 20th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	151	5	Phase A Current 21st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	151	6	Phase A Current 22nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	151	7	Phase A Current 23rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	151	8	Phase A Current 24th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	151	9	Phase A Current 25th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	151	10	Phase A Current 26th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	151	11	Phase A Current 27th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	151	12	Phase A Current 28th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	151	13	Phase A Current 29th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	151	14	Phase A Current 30th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	151	15	Phase A Current 31st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	0	Phase A Current 32nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	1	Phase A Current 33rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	2	Phase A Current 34th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	3	Phase A Current 35th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	4	Phase A Current 36th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	5	Phase A Current 37th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	6	Phase A Current 38th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	7	Phase A Current 39th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	8	Phase A Current 40th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	9	Phase A Current 41st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	10	Phase A Current 42nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	11	Phase A Current43rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	12	Phase A Current 44th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	13	Phase A Current 45th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	14	Phase A Current 46th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	15	Phase A Current 47th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	16	Phase A Current 48th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	17	Phase A Current 49th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	18	Phase A Current 50th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	19	Phase A Current 51st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	20	Phase A Current 52nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	21	Phase A Current 53rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	22	Phase A Current 54th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	23	Phase A Current 55th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	24	Phase A Current 56th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	25	Phase A Current 57th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	26	Phase A Current 58th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	27	Phase A Current 59th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	152	28	Phase A Current 60th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	29	Phase A Current 61st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	30	Phase A Current 62nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	152	31	Phase A Current 63rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	0	Phase A Current 64th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	1	Phase A Current 65th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	2	Phase A Current 66th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	3	Phase A Current 67th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	4	Phase A Current 68th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	5	Phase A Current 69th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	6	Phase A Current 70th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	7	Phase A Current 71st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	8	Phase A Current 72nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	9	Phase A Current 73rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	10	Phase A Current 74th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	11	Phase A Current 75th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	12	Phase A Current 76th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	13	Phase A Current 77th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	14	Phase A Current 78th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	15	Phase A Current 79th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	16	Phase A Current 80th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	17	Phase A Current 81st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	18	Phase A Current 82nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	19	Phase A Current 83rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	20	Phase A Current 84th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	21	Phase A Current 85th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	22	Phase A Current 86th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	23	Phase A Current 87th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	24	Phase A Current 88th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	153	25	Phase A Current 89th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	26	Phase A Current 90th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	27	Phase A Current 91st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	28	Phase A Current 92nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	29	Phase A Current 93rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	30	Phase A Current 94th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	31	Phase A Current 95th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	32	Phase A Current 96th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	33	Phase A Current 97th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	34	Phase A Current 98th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	35	Phase A Current 99th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	36	Phase A Current 100th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	37	Phase A Current 101st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	38	Phase A Current 102nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	39	Phase A Current 103rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	40	Phase A Current 104th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	41	Phase A Current 105th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	42	Phase A Current 106th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	43	Phase A Current 107th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	44	Phase A Current 108th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	45	Phase A Current 109th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	46	Phase A Current 110th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	47	Phase A Current 111th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	48	Phase A Current 112th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	49	Phase A Current 113th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	50	Phase A Current 114th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	51	Phase A Current 115th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	52	Phase A Current 116th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	53	Phase A Current 117th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	153	54	Phase A Current 118th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	55	Phase A Current 119th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	56	Phase A Current 120th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	57	Phase A Current 121st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	58	Phase A Current 122nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	59	Phase A Current 123rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	60	Phase A Current 124th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	61	Phase A Current 125th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	62	Phase A Current 126th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	153	63	Phase A Current 127th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	154	0	Phase B Current 0th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	154	1	Phase B Current 1st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	154	2	Phase B Current 2nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	154	3	Phase B Current 3rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	154	4	Phase B Current 4th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	154	5	Phase B Current 5th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	154	6	Phase B Current 6th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	154	7	Phase B Current 7th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	155	0	Phase B Current 8th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	155	1	Phase B Current 9th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	155	2	Phase B Current 10th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	155	3	Phase B Current 11th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	155	4	Phase B Current 12th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	155	5	Phase B Current 13th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	155	6	Phase B Current 14th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	155	7	Phase B Current 15th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	156	0	Phase B Current 16th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	156	1	Phase B Current 17th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	156	2	Phase B Current 18th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	156	3	Phase B Current 19th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	156	4	Phase B Current 20th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	156	5	Phase B Current 21st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	156	6	Phase B Current 22nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	156	7	Phase B Current 23rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	156	8	Phase B Current 24th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	156	9	Phase B Current 25th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	156	10	Phase B Current 26th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	156	11	Phase B Current 27th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	156	12	Phase B Current 28th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	156	13	Phase B Current 29th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	156	14	Phase B Current 30th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	156	15	Phase B Current 31st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	0	Phase B Current 32nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	1	Phase B Current 33rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	2	Phase B Current 34th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	3	Phase B Current 35th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	4	Phase B Current 36th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	5	Phase B Current 37th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	6	Phase B Current 38th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	7	Phase B Current 39th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	8	Phase B Current 40th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	9	Phase B Current 41st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	10	Phase B Current 42nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	11	Phase B Current43rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	12	Phase B Current 44th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	13	Phase B Current 45th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	14	Phase B Current 46th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	15	Phase B Current 47th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	157	16	Phase B Current 48th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	17	Phase B Current 49th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	18	Phase B Current 50th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	19	Phase B Current 51st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	20	Phase B Current 52nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	21	Phase B Current 53rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	22	Phase B Current 54th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	23	Phase B Current 55th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	24	Phase B Current 56th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	25	Phase B Current 57th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	26	Phase B Current 58th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	27	Phase B Current 59th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	28	Phase B Current 60th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	29	Phase B Current 61st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	30	Phase B Current 62nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	157	31	Phase B Current 63rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	0	Phase B Current 64th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	1	Phase B Current 65th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	2	Phase B Current 66th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	3	Phase B Current 67th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	4	Phase B Current 68th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	5	Phase B Current 69th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	6	Phase B Current 70th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	7	Phase B Current 71st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	8	Phase B Current 72nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	9	Phase B Current 73rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	10	Phase B Current 74th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	11	Phase B Current 75th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	12	Phase B Current 76th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	158	13	Phase B Current 77th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	14	Phase B Current 78th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	15	Phase B Current 79th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	16	Phase B Current 80th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	17	Phase B Current 81st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	18	Phase B Current 82nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	19	Phase B Current 83rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	20	Phase B Current 84th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	21	Phase B Current 85th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	22	Phase B Current 86th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	23	Phase B Current 87th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	24	Phase B Current 88th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	25	Phase B Current 89th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	26	Phase B Current 90th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	27	Phase B Current 91st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	28	Phase B Current 92nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	29	Phase B Current 93rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	30	Phase B Current 94th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	31	Phase B Current 95th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	32	Phase B Current 96th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	33	Phase B Current 97th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	34	Phase B Current 98th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	35	Phase B Current 99th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	36	Phase B Current 100th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	37	Phase B Current 101st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	38	Phase B Current 102nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	39	Phase B Current 103rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	40	Phase B Current 104th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	41	Phase B Current 105th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	158	42	Phase B Current 106th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	43	Phase B Current 107th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	44	Phase B Current 108th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	45	Phase B Current 109th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	46	Phase B Current 110th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	47	Phase B Current 111th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	48	Phase B Current 112th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	49	Phase B Current 113th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	50	Phase B Current 114th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	51	Phase B Current 115th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	52	Phase B Current 116th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	53	Phase B Current 117th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	54	Phase B Current 118th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	55	Phase B Current 119th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	56	Phase B Current 120th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	57	Phase B Current 121st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	58	Phase B Current 122nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	59	Phase B Current 123rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	60	Phase B Current 124th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	61	Phase B Current 125th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	62	Phase B Current 126th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	158	63	Phase B Current 127th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	159	0	Phase C Current 0th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	159	1	Phase C Current 1st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	159	2	Phase C Current 2nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	159	3	Phase C Current 3rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	159	4	Phase C Current 4th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	159	5	Phase C Current 5th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	159	6	Phase C Current 6th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	159	7	Phase C Current 7th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	160	0	Phase C Current 8th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	160	1	Phase C Current 9th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	160	2	Phase C Current 10th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	160	3	Phase C Current 11th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	160	4	Phase C Current 12th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	160	5	Phase C Current 13th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	160	6	Phase C Current 14th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	160	7	Phase C Current 15th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	161	0	Phase C Current 16th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30		1	Phase C Current 17th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	161	2	Phase C Current 18th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	161	3	Phase C Current 19th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	161	4	Phase C Current 20th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	161	5	Phase C Current 21st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	161	6	Phase C Current 22nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	161	7	Phase C Current 23rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	161	8	Phase C Current 24th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	161	9	Phase C Current 25th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	161	10	Phase C Current 26th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	161	11	Phase C Current 27th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	161	12	Phase C Current 28th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	161	13	Phase C Current 29th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	161	14	Phase C Current 30th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	161	15	Phase C Current 31st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	0	Phase C Current 32nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	1	Phase C Current 33rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	2	Phase C Current 34th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	3	Phase C Current 35th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	162	4	Phase C Current 36th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	5	Phase C Current 37th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	6	Phase C Current 38th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	7	Phase C Current 39th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	8	Phase C Current 40th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	9	Phase C Current 41st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	10	Phase C Current 42nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	11	Phase C Current43rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	12	Phase C Current 44th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	13	Phase C Current 45th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	14	Phase C Current 46th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	15	Phase C Current 47th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	16	Phase C Current 48th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	17	Phase C Current 49th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	18	Phase C Current 50th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	19	Phase C Current 51st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	20	Phase C Current 52nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	21	Phase C Current 53rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	22	Phase C Current 54th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	23	Phase C Current 55th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	24	Phase C Current 56th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	25	Phase C Current 57th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	26	Phase C Current 58th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	27	Phase C Current 59th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	28	Phase C Current 60th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	29	Phase C Current 61st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	30	Phase C Current 62nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	162	31	Phase C Current 63rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	0	Phase C Current 64th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	163	1	Phase C Current 65th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	2	Phase C Current 66th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	3	Phase C Current 67th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	4	Phase C Current 68th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	5	Phase C Current 69th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	6	Phase C Current 70th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	7	Phase C Current 71st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	8	Phase C Current 72nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	9	Phase C Current 73rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	10	Phase C Current 74th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	11	Phase C Current 75th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	12	Phase C Current 76th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	13	Phase C Current 77th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	14	Phase C Current 78th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	15	Phase C Current 79th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	16	Phase C Current 80th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	17	Phase C Current 81st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	18	Phase C Current 82nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	19	Phase C Current 83rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	20	Phase C Current 84th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	21	Phase C Current 85th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	22	Phase C Current 86th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	23	Phase C Current 87th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	24	Phase C Current 88th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	25	Phase C Current 89th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	26	Phase C Current 90th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	27	Phase C Current 91st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	28	Phase C Current 92nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	29	Phase C Current 93rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	163	30	Phase C Current 94th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	31	Phase C Current 95th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	32	Phase C Current 96th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	33	Phase C Current 97th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	34	Phase C Current 98th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	35	Phase C Current 99th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	36	Phase C Current 100th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	37	Phase C Current 101st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	38	Phase C Current 102nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	39	Phase C Current 103rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	40	Phase C Current 104th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	41	Phase C Current 105th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	42	Phase C Current 106th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	43	Phase C Current 107th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	44	Phase C Current 108th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	45	Phase C Current 109th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	46	Phase C Current 110th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	47	Phase C Current 111th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	48	Phase C Current 112th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	49	Phase C Current 113th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	50	Phase C Current 114th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	51	Phase C Current 115th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	52	Phase C Current 116th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	53	Phase C Current 117th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	54	Phase C Current 118th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	55	Phase C Current 119th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	56	Phase C Current 120th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	57	Phase C Current 121st Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	58	Phase C Current 122nd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	163	59	Phase C Current 123rd Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	60	Phase C Current 124th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	61	Phase C Current 125th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	62	Phase C Current 126th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	163	63	Phase C Current 127th Harmonic Magnitude	+327.67% / -327.68%	0.01%	F7
30	164	0	Phase A-N / Phase A-B Voltage 0th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	164	1	Phase A-N / Phase A-B Voltage 1st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	164	2	Phase A-N / Phase A-B Voltage 2nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	164	3	Phase A-N / Phase A-B Voltage 3rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	164	4	Phase A-N / Phase A-B Voltage 4th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	164	5	Phase A-N / Phase A-B Voltage 5th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	164	6	Phase A-N / Phase A-B Voltage 6th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	164	7	Phase A-N / Phase A-B Voltage 7th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	165	0	Phase A-N / Phase A-B Voltage 8th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	165	1	Phase A-N / Phase A-B Voltage 9th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	165	2	Phase A-N / Phase A-B Voltage 10th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	165	3	Phase A-N / Phase A-B Voltage 11th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	165	4	Phase A-N / Phase A-B Voltage 12th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	165	5	Phase A-N / Phase A-B Voltage 13th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	165	6	Phase A-N / Phase A-B Voltage 14th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	165	7	Phase A-N / Phase A-B Voltage 15th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	166	0	Phase A-N / Phase A-B Voltage 16th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	166	1	Phase A-N / Phase A-B Voltage 17th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	166	2	Phase A-N / Phase A-B Voltage 18th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	166	3	Phase A-N / Phase A-B Voltage 19th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	166	4	Phase A-N / Phase A-B Voltage 20th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	166	5	Phase A-N / Phase A-B Voltage 21st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	166	6	Phase A-N / Phase A-B Voltage 22nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	166	7	Phase A-N / Phase A-B Voltage 23rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	166	8	Phase A-N / Phase A-B Voltage 24th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	166	9	Phase A-N / Phase A-B Voltage 25th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	166	10	Phase A-N / Phase A-B Voltage 26th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	166	11	Phase A-N / Phase A-B Voltage 27th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	166	12	Phase A-N / Phase A-B Voltage 28th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	166	13	Phase A-N / Phase A-B Voltage 29th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	166	14	Phase A-N / Phase A-B Voltage 30th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	166	15	Phase A-N / Phase A-B Voltage 31st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	0	Phase A-N / Phase A-B Voltage 32nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	1	Phase A-N / Phase A-B Voltage 33rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	2	Phase A-N / Phase A-B Voltage 34th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	3	Phase A-N / Phase A-B Voltage 35th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	4	Phase A-N / Phase A-B Voltage 36th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	5	Phase A-N / Phase A-B Voltage 37th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	6	Phase A-N / Phase A-B Voltage 38th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	7	Phase A-N / Phase A-B Voltage 39th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	8	Phase A-N / Phase A-B Voltage 40th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	9	Phase A-N / Phase A-B Voltage 41st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	10	Phase A-N / Phase A-B Voltage 42nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	11	Phase A-N / Phase A-B Voltage 43rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	12	Phase A-N / Phase A-B Voltage 44th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	13	Phase A-N / Phase A-B Voltage 45th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	14	Phase A-N / Phase A-B Voltage 46th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	15	Phase A-N / Phase A-B Voltage 47th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	16	Phase A-N / Phase A-B Voltage 48th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	17	Phase A-N / Phase A-B Voltage 49th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	18	Phase A-N / Phase A-B Voltage 50th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	19	Phase A-N / Phase A-B Voltage 51st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	20	Phase A-N / Phase A-B Voltage 52nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	167	21	Phase A-N / Phase A-B Voltage 53rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	22	Phase A-N / Phase A-B Voltage 54th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	23	Phase A-N / Phase A-B Voltage 55th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	24	Phase A-N / Phase A-B Voltage 56th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	25	Phase A-N / Phase A-B Voltage 57th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	26	Phase A-N / Phase A-B Voltage 58th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	27	Phase A-N / Phase A-B Voltage 59th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	28	Phase A-N / Phase A-B Voltage 60th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	29	Phase A-N / Phase A-B Voltage 61st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	30	Phase A-N / Phase A-B Voltage 62nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	167	31	Phase A-N / Phase A-B Voltage 63rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	0	Phase A-N / Phase A-B Voltage 64th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	1	Phase A-N / Phase A-B Voltage 65th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	2	Phase A-N / Phase A-B Voltage 66th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	3	Phase A-N / Phase A-B Voltage 67th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	4	Phase A-N / Phase A-B Voltage 68th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	5	Phase A-N / Phase A-B Voltage 69th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	6	Phase A-N / Phase A-B Voltage 70th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	7	Phase A-N / Phase A-B Voltage 71st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	8	Phase A-N / Phase A-B Voltage 72nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	9	Phase A-N / Phase A-B Voltage 73rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	10	Phase A-N / Phase A-B Voltage 74th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	11	Phase A-N / Phase A-B Voltage 75th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	12	Phase A-N / Phase A-B Voltage 76th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	13	Phase A-N / Phase A-B Voltage 77th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	14	Phase A-N / Phase A-B Voltage 78th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	15	Phase A-N / Phase A-B Voltage 79th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	16	Phase A-N / Phase A-B Voltage 80th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	17	Phase A-N / Phase A-B Voltage 81st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	168	18	Phase A-N / Phase A-B Voltage 82nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	19	Phase A-N / Phase A-B Voltage 83rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	20	Phase A-N / Phase A-B Voltage 84th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	21	Phase A-N / Phase A-B Voltage 85th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	22	Phase A-N / Phase A-B Voltage 86th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	23	Phase A-N / Phase A-B Voltage 87th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	24	Phase A-N / Phase A-B Voltage 88th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	25	Phase A-N / Phase A-B Voltage 89th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	26	Phase A-N / Phase A-B Voltage 90th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	27	Phase A-N / Phase A-B Voltage 91st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	28	Phase A-N / Phase A-B Voltage 92nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	29	Phase A-N / Phase A-B Voltage 93rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	30	Phase A-N / Phase A-B Voltage 94th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	31	Phase A-N / Phase A-B Voltage 95th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	32	Phase A-N / Phase A-B Voltage 96th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	33	Phase A-N / Phase A-B Voltage 97th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	34	Phase A-N / Phase A-B Voltage 98th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	35	Phase A-N / Phase A-B Voltage 99th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	36	Phase A-N / Phase A-B Voltage 100th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	37	Phase A-N / Phase A-B Voltage 101st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	38	Phase A-N / Phase A-B Voltage 102nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	39	Phase A-N / Phase A-B Voltage 103rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	40	Phase A-N / Phase A-B Voltage 104th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	41	Phase A-N / Phase A-B Voltage 105th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	42	Phase A-N / Phase A-B Voltage 106th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	43	Phase A-N / Phase A-B Voltage 107th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	44	Phase A-N / Phase A-B Voltage 108th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	45	Phase A-N / Phase A-B Voltage 109th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	46	Phase A-N / Phase A-B Voltage 110th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	168	47	Phase A-N / Phase A-B Voltage 111th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	48	Phase A-N / Phase A-B Voltage 112th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	49	Phase A-N / Phase A-B Voltage 113th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	50	Phase A-N / Phase A-B Voltage 114th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	51	Phase A-N / Phase A-B Voltage 115th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	52	Phase A-N / Phase A-B Voltage 116th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	53	Phase A-N / Phase A-B Voltage 117th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	54	Phase A-N / Phase A-B Voltage 118th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	55	Phase A-N / Phase A-B Voltage 119th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	56	Phase A-N / Phase A-B Voltage 120th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	57	Phase A-N / Phase A-B Voltage 121st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	58	Phase A-N / Phase A-B Voltage 122nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	59	Phase A-N / Phase A-B Voltage 123rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	60	Phase A-N / Phase A-B Voltage 124th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	61	Phase A-N / Phase A-B Voltage 125th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	62	Phase A-N / Phase A-B Voltage 126th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	168	63	Phase A-N / Phase A-B Voltage 127th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	169	0	Phase B-N / Phase B-C Voltage 0th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	169	1	Phase B-N / Phase B-C Voltage 1st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	169	2	Phase B-N / Phase B-C Voltage 2nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	169	3	Phase B-N / Phase B-C Voltage 3rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	169	4	Phase B-N / Phase B-C Voltage 4th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	169	5	Phase B-N / Phase B-C Voltage 5th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	169	6	Phase B-N / Phase B-C Voltage 6th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	169	7	Phase B-N / Phase B-C Voltage 7th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	170	0	Phase B-N / Phase B-C Voltage 8th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	170	1	Phase B-N / Phase B-C Voltage 9th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	170	2	Phase B-N / Phase B-C Voltage 10th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	170	3	Phase B-N / Phase B-C Voltage 11th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	170	4	Phase B-N / Phase B-C Voltage 12th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	170	5	Phase B-N / Phase B-C Voltage 13th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	170	6	Phase B-N / Phase B-C Voltage 14th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	170	7	Phase B-N / Phase B-C Voltage 15th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	171	0	Phase B-N / Phase B-C Voltage 16th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	171	1	Phase B-N / Phase B-C Voltage 17th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	171	2	Phase B-N / Phase B-C Voltage 18th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	171	3	Phase B-N / Phase B-C Voltage 19th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	171	4	Phase B-N / Phase B-C Voltage 20th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	171	5	Phase B-N / Phase B-C Voltage 21st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	171	6	Phase B-N / Phase B-C Voltage 22nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	171	7	Phase B-N / Phase B-C Voltage 23rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	171	8	Phase B-N / Phase B-C Voltage 24th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	171	9	Phase B-N / Phase B-C Voltage 25th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	171	10	Phase B-N / Phase B-C Voltage 26th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	171	11	Phase B-N / Phase B-C Voltage 27th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	171	12	Phase B-N / Phase B-C Voltage 28th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	171	13	Phase B-N / Phase B-C Voltage 29th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	171	14	Phase B-N / Phase B-C Voltage 30th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	171	15	Phase B-N / Phase B-C Voltage 31st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	0	Phase B-N / Phase B-C Voltage 32nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	1	Phase B-N / Phase B-C Voltage 33rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	2	Phase B-N / Phase B-C Voltage 34th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	3	Phase B-N / Phase B-C Voltage 35th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	4	Phase B-N / Phase B-C Voltage 36th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	5	Phase B-N / Phase B-C Voltage 37th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	6	Phase B-N / Phase B-C Voltage 38th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	7	Phase B-N / Phase B-C Voltage 39th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	8	Phase B-N / Phase B-C Voltage 40th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	172	9	Phase B-N / Phase B-C Voltage 41st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	10	Phase B-N / Phase B-C Voltage 42nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	11	Phase B-N / Phase B-C Voltage 43rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	12	Phase B-N / Phase B-C Voltage 44th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	13	Phase B-N / Phase B-C Voltage 45th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	14	Phase B-N / Phase B-C Voltage 46th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	15	Phase B-N / Phase B-C Voltage 47th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	16	Phase B-N / Phase B-C Voltage 48th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	17	Phase B-N / Phase B-C Voltage 49th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	18	Phase B-N / Phase B-C Voltage 50th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	19	Phase B-N / Phase B-C Voltage 51st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	20	Phase B-N / Phase B-C Voltage 52nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	21	Phase B-N / Phase B-C Voltage 53rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	22	Phase B-N / Phase B-C Voltage 54th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	23	Phase B-N / Phase B-C Voltage 55th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	24	Phase B-N / Phase B-C Voltage 56th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	25	Phase B-N / Phase B-C Voltage 57th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	26	Phase B-N / Phase B-C Voltage 58th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	27	Phase B-N / Phase B-C Voltage 59th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	28	Phase B-N / Phase B-C Voltage 60th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	29	Phase B-N / Phase B-C Voltage 61st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	30	Phase B-N / Phase B-C Voltage 62nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	172	31	Phase B-N / Phase B-C Voltage 63rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	0	Phase B-N / Phase B-C Voltage 64th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	1	Phase B-N / Phase B-C Voltage 65th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	2	Phase B-N / Phase B-C Voltage 66th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	3	Phase B-N / Phase B-C Voltage 67th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	4	Phase B-N / Phase B-C Voltage 68th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	5	Phase B-N / Phase B-C Voltage 69th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	173	6	Phase B-N / Phase B-C Voltage 70th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	7	Phase B-N / Phase B-C Voltage 71st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	8	Phase B-N / Phase B-C Voltage 72nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	9	Phase B-N / Phase B-C Voltage 73rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	10	Phase B-N / Phase B-C Voltage 74th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	11	Phase B-N / Phase B-C Voltage 75th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	12	Phase B-N / Phase B-C Voltage 76th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	13	Phase B-N / Phase B-C Voltage 77th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	14	Phase B-N / Phase B-C Voltage 78th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	15	Phase B-N / Phase B-C Voltage 79th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	16	Phase B-N / Phase B-C Voltage 80th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	17	Phase B-N / Phase B-C Voltage 81st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	18	Phase B-N / Phase B-C Voltage 82nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	19	Phase B-N / Phase B-C Voltage 83rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	20	Phase B-N / Phase B-C Voltage 84th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	21	Phase B-N / Phase B-C Voltage 85th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	22	Phase B-N / Phase B-C Voltage 86th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	23	Phase B-N / Phase B-C Voltage 87th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	24	Phase B-N / Phase B-C Voltage 88th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	25	Phase B-N / Phase B-C Voltage 89th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	26	Phase B-N / Phase B-C Voltage 90th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	27	Phase B-N / Phase B-C Voltage 91st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	28	Phase B-N / Phase B-C Voltage 92nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	29	Phase B-N / Phase B-C Voltage 93rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	30	Phase B-N / Phase B-C Voltage 94th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	31	Phase B-N / Phase B-C Voltage 95th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	32	Phase B-N / Phase B-C Voltage 96th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	33	Phase B-N / Phase B-C Voltage 97th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	34	Phase B-N / Phase B-C Voltage 98th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	173	35	Phase B-N / Phase B-C Voltage 99th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	36	Phase B-N / Phase B-C Voltage 100th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	37	Phase B-N / Phase B-C Voltage 101st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	38	Phase B-N / Phase B-C Voltage 102nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	39	Phase B-N / Phase B-C Voltage 103rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	40	Phase B-N / Phase B-C Voltage 104th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	41	Phase B-N / Phase B-C Voltage 105th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	42	Phase B-N / Phase B-C Voltage 106th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	43	Phase B-N / Phase B-C Voltage 107th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	44	Phase B-N / Phase B-C Voltage 108th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	45	Phase B-N / Phase B-C Voltage 109th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	46	Phase B-N / Phase B-C Voltage 110th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	47	Phase B-N / Phase B-C Voltage 111th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	48	Phase B-N / Phase B-C Voltage 112th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	49	Phase B-N / Phase B-C Voltage 113th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	50	Phase B-N / Phase B-C Voltage 114th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	51	Phase B-N / Phase B-C Voltage 115th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	52	Phase B-N / Phase B-C Voltage 116th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	53	Phase B-N / Phase B-C Voltage 117th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	54	Phase B-N / Phase B-C Voltage 118th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	55	Phase B-N / Phase B-C Voltage 119th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	56	Phase B-N / Phase B-C Voltage 120th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	57	Phase B-N / Phase B-C Voltage 121st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	58	Phase B-N / Phase B-C Voltage 122nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	59	Phase B-N / Phase B-C Voltage 123rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	60	Phase B-N / Phase B-C Voltage 124th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	61	Phase B-N / Phase B-C Voltage 125th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	62	Phase B-N / Phase B-C Voltage 126th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	173	63	Phase B-N / Phase B-C Voltage 127th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	174	0	Phase C-N / Phase C-A Voltage 0th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	174	1	Phase C-N / Phase C-A Voltage 1st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	174	2	Phase C-N / Phase C-A Voltage 2nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	174	3	Phase C-N / Phase C-A Voltage 3rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	174	4	Phase C-N / Phase C-A Voltage 4th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	174	5	Phase C-N / Phase C-A Voltage 5th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	174	6	Phase C-N / Phase C-A Voltage 6th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	174	7	Phase C-N / Phase C-A Voltage 7th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	175	0	Phase C-N / Phase C-A Voltage 8th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	175	1	Phase C-N / Phase C-A Voltage 9th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	175	2	Phase C-N / Phase C-A Voltage 10th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	175	3	Phase C-N / Phase C-A Voltage 11th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	175	4	Phase C-N / Phase C-A Voltage 12th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	175	5	Phase C-N / Phase C-A Voltage 13th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	175	6	Phase C-N / Phase C-A Voltage 14th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	175	7	Phase C-N / Phase C-A Voltage 15th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	176	0	Phase C-N / Phase C-A Voltage 16th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	176	1	Phase C-N / Phase C-A Voltage 17th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	176	2	Phase C-N / Phase C-A Voltage 18th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	176	3	Phase C-N / Phase C-A Voltage 19th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	176	4	Phase C-N / Phase C-A Voltage 20th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	176	5	Phase C-N / Phase C-A Voltage 21st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	176	6	Phase C-N / Phase C-A Voltage 22nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	176	7	Phase C-N / Phase C-A Voltage 23rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	176	8	Phase C-N / Phase C-A Voltage 24th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	176	9	Phase C-N / Phase C-A Voltage 25th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	176	10	Phase C-N / Phase C-A Voltage 26th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	176	11	Phase C-N / Phase C-A Voltage 27th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	176	12	Phase C-N / Phase C-A Voltage 28th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	176	13	Phase C-N / Phase C-A Voltage 29th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	176	14	Phase C-N / Phase C-A Voltage 30th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	176	15	Phase C-N / Phase C-A Voltage 31st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	0	Phase C-N / Phase C-A Voltage 32nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	1	Phase C-N / Phase C-A Voltage 33rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	2	Phase C-N / Phase C-A Voltage 34th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	3	Phase C-N / Phase C-A Voltage 35th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	4	Phase C-N / Phase C-A Voltage 36th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	5	Phase C-N / Phase C-A Voltage 37th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	6	Phase C-N / Phase C-A Voltage 38th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	7	Phase C-N / Phase C-A Voltage 39th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	8	Phase C-N / Phase C-A Voltage 40th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	9	Phase C-N / Phase C-A Voltage 41st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	10	Phase C-N / Phase C-A Voltage 42nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	11	Phase C-N / Phase C-A Voltage 43rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	12	Phase C-N / Phase C-A Voltage 44th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	13	Phase C-N / Phase C-A Voltage 45th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	14	Phase C-N / Phase C-A Voltage 46th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	15	Phase C-N / Phase C-A Voltage 47th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	16	Phase C-N / Phase C-A Voltage 48th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	17	Phase C-N / Phase C-A Voltage 49th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	18	Phase C-N / Phase C-A Voltage 50th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	19	Phase C-N / Phase C-A Voltage 51st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	20	Phase C-N / Phase C-A Voltage 52nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	21	Phase C-N / Phase C-A Voltage 53rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	22	Phase C-N / Phase C-A Voltage 54th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	23	Phase C-N / Phase C-A Voltage 55th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	24	Phase C-N / Phase C-A Voltage 56th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	25	Phase C-N / Phase C-A Voltage 57th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	177	26	Phase C-N / Phase C-A Voltage 58th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	27	Phase C-N / Phase C-A Voltage 59th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	28	Phase C-N / Phase C-A Voltage 60th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	29	Phase C-N / Phase C-A Voltage 61st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	30	Phase C-N / Phase C-A Voltage 62nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	177	31	Phase C-N / Phase C-A Voltage 63rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	0	Phase C-N / Phase C-A Voltage 64th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	1	Phase C-N / Phase C-A Voltage 65th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	2	Phase C-N / Phase C-A Voltage 66th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	3	Phase C-N / Phase C-A Voltage 67th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	4	Phase C-N / Phase C-A Voltage 68th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	5	Phase C-N / Phase C-A Voltage 69th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	6	Phase C-N / Phase C-A Voltage 70th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	7	Phase C-N / Phase C-A Voltage 71st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	8	Phase C-N / Phase C-A Voltage 72nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	9	Phase C-N / Phase C-A Voltage 73rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	10	Phase C-N / Phase C-A Voltage 74th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	11	Phase C-N / Phase C-A Voltage 75th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	12	Phase C-N / Phase C-A Voltage 76th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	13	Phase C-N / Phase C-A Voltage 77th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	14	Phase C-N / Phase C-A Voltage 78th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	15	Phase C-N / Phase C-A Voltage 79th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	16	Phase C-N / Phase C-A Voltage 80th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	17	Phase C-N / Phase C-A Voltage 81st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	18	Phase C-N / Phase C-A Voltage 82nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	19	Phase C-N / Phase C-A Voltage 83rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	20	Phase C-N / Phase C-A Voltage 84th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	21	Phase C-N / Phase C-A Voltage 85th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	22	Phase C-N / Phase C-A Voltage 86th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	178	23	Phase C-N / Phase C-A Voltage 87th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	24	Phase C-N / Phase C-A Voltage 88th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	25	Phase C-N / Phase C-A Voltage 89th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	26	Phase C-N / Phase C-A Voltage 90th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	27	Phase C-N / Phase C-A Voltage 91st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	28	Phase C-N / Phase C-A Voltage 92nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	29	Phase C-N / Phase C-A Voltage 93rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	30	Phase C-N / Phase C-A Voltage 94th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	31	Phase C-N / Phase C-A Voltage 95th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	32	Phase C-N / Phase C-A Voltage 96th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	33	Phase C-N / Phase C-A Voltage 97th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	34	Phase C-N / Phase C-A Voltage 98th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	35	Phase C-N / Phase C-A Voltage 99th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	36	Phase C-N / Phase C-A Voltage 100th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	37	Phase C-N / Phase C-A Voltage 101st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	38	Phase C-N / Phase C-A Voltage 102nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	39	Phase C-N / Phase C-A Voltage 103rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	40	Phase C-N / Phase C-A Voltage 104th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	41	Phase C-N / Phase C-A Voltage 105th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	42	Phase C-N / Phase C-A Voltage 106th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	43	Phase C-N / Phase C-A Voltage 107th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	44	Phase C-N / Phase C-A Voltage 108th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	45	Phase C-N / Phase C-A Voltage 109th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	46	Phase C-N / Phase C-A Voltage 110th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	47	Phase C-N / Phase C-A Voltage 111th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	48	Phase C-N / Phase C-A Voltage 112th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	49	Phase C-N / Phase C-A Voltage 113th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	50	Phase C-N / Phase C-A Voltage 114th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	51	Phase C-N / Phase C-A Voltage 115th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	178	52	Phase C-N / Phase C-A Voltage 116th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	53	Phase C-N / Phase C-A Voltage 117th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	54	Phase C-N / Phase C-A Voltage 118th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	55	Phase C-N / Phase C-A Voltage 119th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	56	Phase C-N / Phase C-A Voltage 120th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	57	Phase C-N / Phase C-A Voltage 121st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	58	Phase C-N / Phase C-A Voltage 122nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	59	Phase C-N / Phase C-A Voltage 123rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	60	Phase C-N / Phase C-A Voltage 124th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	61	Phase C-N / Phase C-A Voltage 125th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	62	Phase C-N / Phase C-A Voltage 126th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	178	63	Phase C-N / Phase C-A Voltage 127th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	179	0	Phase A Current 0th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	179	1	Phase A Current 1st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	179	2	Phase A Current 2nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	179	3	Phase A Current 3rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	179	4	Phase A Current 4th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	179	5	Phase A Current 5th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	179	6	Phase A Current 6th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	179	7	Phase A Current 7th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	180	0	Phase A Current 8th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	180	1	Phase A Current 9th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	180	2	Phase A Current 10th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	180	3	Phase A Current 11th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	180	4	Phase A Current 12th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	180	5	Phase A Current 13th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	180	6	Phase A Current 14th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	180	7	Phase A Current 15th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	181	0	Phase A Current 16th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	181	1	Phase A Current 17th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	181	2	Phase A Current 18th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	181	3	Phase A Current 19th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	181	4	Phase A Current 20th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	181	5	Phase A Current 21st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	181	6	Phase A Current 22nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	181	7	Phase A Current 23rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	181	8	Phase A Current 24th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	181	9	Phase A Current 25th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	181	10	Phase A Current 26th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	181	11	Phase A Current 27th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	181	12	Phase A Current 28th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	181	13	Phase A Current 29th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	181	14	Phase A Current 30th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	181	15	Phase A Current 31st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	0	Phase A Current 32nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	1	Phase A Current 33rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	2	Phase A Current 34th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	3	Phase A Current 35th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	4	Phase A Current 36th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	5	Phase A Current 37th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	6	Phase A Current 38th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	7	Phase A Current 39th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	8	Phase A Current 40th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	9	Phase A Current 41st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	10	Phase A Current 42nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	11	Phase A Current43rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	12	Phase A Current 44th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	13	Phase A Current 45th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	182	14	Phase A Current 46th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	15	Phase A Current 47th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	16	Phase A Current 48th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	17	Phase A Current 49th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	18	Phase A Current 50th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	19	Phase A Current 51st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	20	Phase A Current 52nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	21	Phase A Current 53rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	22	Phase A Current 54th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	23	Phase A Current 55th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	24	Phase A Current 56th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	25	Phase A Current 57th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	26	Phase A Current 58th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	27	Phase A Current 59th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	28	Phase A Current 60th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	29	Phase A Current 61st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	30	Phase A Current 62nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	182	31	Phase A Current 63rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	0	Phase A Current 64th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	1	Phase A Current 65th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	2	Phase A Current 66th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	3	Phase A Current 67th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	4	Phase A Current 68th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	5	Phase A Current 69th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	6	Phase A Current 70th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	7	Phase A Current 71st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	8	Phase A Current 72nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	9	Phase A Current 73rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	10	Phase A Current 74th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	183	11	Phase A Current 75th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	12	Phase A Current 76th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	13	Phase A Current 77th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	14	Phase A Current 78th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	15	Phase A Current 79th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	16	Phase A Current 80th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	17	Phase A Current 81st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	18	Phase A Current 82nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	19	Phase A Current 83rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	20	Phase A Current 84th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	21	Phase A Current 85th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	22	Phase A Current 86th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	23	Phase A Current 87th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	24	Phase A Current 88th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	25	Phase A Current 89th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	26	Phase A Current 90th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	27	Phase A Current 91st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	28	Phase A Current 92nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	29	Phase A Current 93rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	30	Phase A Current 94th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	31	Phase A Current 95th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	32	Phase A Current 96th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	33	Phase A Current 97th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	34	Phase A Current 98th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	35	Phase A Current 99th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	36	Phase A Current 100th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	37	Phase A Current 101st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	38	Phase A Current 102nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	39	Phase A Current 103rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	183	40	Phase A Current 104th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	41	Phase A Current 105th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	42	Phase A Current 106th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	43	Phase A Current 107th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	44	Phase A Current 108th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	45	Phase A Current 109th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	46	Phase A Current 110th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	47	Phase A Current 111th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	48	Phase A Current 112th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	49	Phase A Current 113th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	50	Phase A Current 114th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	51	Phase A Current 115th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	52	Phase A Current 116th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	53	Phase A Current 117th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	54	Phase A Current 118th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	55	Phase A Current 119th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	56	Phase A Current 120th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	57	Phase A Current 121st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	58	Phase A Current 122nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	59	Phase A Current 123rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	60	Phase A Current 124th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	61	Phase A Current 125th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	62	Phase A Current 126th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	183	63	Phase A Current 127th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	184	0	Phase B Current 0th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	184	1	Phase B Current 1st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	184	2	Phase B Current 2nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	184	3	Phase B Current 3rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	184	4	Phase B Current 4th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	184	5	Phase B Current 5th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	184	6	Phase B Current 6th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	184	7	Phase B Current 7th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	185	0	Phase B Current 8th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	185	1	Phase B Current 9th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	185	2	Phase B Current 10th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	185	3	Phase B Current 11th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	185	4	Phase B Current 12th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	185	5	Phase B Current 13th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	185	6	Phase B Current 14th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	185	7	Phase B Current 15th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	186	0	Phase B Current 16th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	186	1	Phase B Current 17th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	186	2	Phase B Current 18th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	186	3	Phase B Current 19th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	186	4	Phase B Current 20th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	186	5	Phase B Current 21st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	186	6	Phase B Current 22nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	186	7	Phase B Current 23rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	186	8	Phase B Current 24th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	186	9	Phase B Current 25th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	186	10	Phase B Current 26th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	186	11	Phase B Current 27th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	186	12	Phase B Current 28th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	186	13	Phase B Current 29th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	186	14	Phase B Current 30th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	186	15	Phase B Current 31st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	0	Phase B Current 32nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	1	Phase B Current 33rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	187	2	Phase B Current 34th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	3	Phase B Current 35th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	4	Phase B Current 36th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	5	Phase B Current 37th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	6	Phase B Current 38th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	7	Phase B Current 39th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	8	Phase B Current 40th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	9	Phase B Current 41st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	10	Phase B Current 42nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	11	Phase B Current43rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	12	Phase B Current 44th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	13	Phase B Current 45th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	14	Phase B Current 46th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	15	Phase B Current 47th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	16	Phase B Current 48th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	17	Phase B Current 49th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	18	Phase B Current 50th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	19	Phase B Current 51st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	20	Phase B Current 52nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	21	Phase B Current 53rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	22	Phase B Current 54th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	23	Phase B Current 55th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	24	Phase B Current 56th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	25	Phase B Current 57th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	26	Phase B Current 58th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	27	Phase B Current 59th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	28	Phase B Current 60th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	29	Phase B Current 61st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	187	30	Phase B Current 62nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	187	31	Phase B Current 63rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	0	Phase B Current 64th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	1	Phase B Current 65th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	2	Phase B Current 66th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	3	Phase B Current 67th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	4	Phase B Current 68th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	5	Phase B Current 69th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	6	Phase B Current 70th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	7	Phase B Current 71st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	8	Phase B Current 72nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	9	Phase B Current 73rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	10	Phase B Current 74th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	11	Phase B Current 75th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	12	Phase B Current 76th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	13	Phase B Current 77th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	14	Phase B Current 78th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	15	Phase B Current 79th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	16	Phase B Current 80th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	17	Phase B Current 81st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	18	Phase B Current 82nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	19	Phase B Current 83rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	20	Phase B Current 84th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	21	Phase B Current 85th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	22	Phase B Current 86th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	23	Phase B Current 87th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	24	Phase B Current 88th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	25	Phase B Current 89th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	26	Phase B Current 90th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	27	Phase B Current 91st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	188	28	Phase B Current 92nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	29	Phase B Current 93rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	30	Phase B Current 94th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	31	Phase B Current 95th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	32	Phase B Current 96th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	33	Phase B Current 97th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	34	Phase B Current 98th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	35	Phase B Current 99th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	36	Phase B Current 100th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	37	Phase B Current 101st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	38	Phase B Current 102nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	39	Phase B Current 103rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	40	Phase B Current 104th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	41	Phase B Current 105th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	42	Phase B Current 106th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	43	Phase B Current 107th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	44	Phase B Current 108th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	45	Phase B Current 109th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	46	Phase B Current 110th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	47	Phase B Current 111th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	48	Phase B Current 112th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	49	Phase B Current 113th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	50	Phase B Current 114th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	51	Phase B Current 115th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	52	Phase B Current 116th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	53	Phase B Current 117th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	54	Phase B Current 118th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	55	Phase B Current 119th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	56	Phase B Current 120th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	188	57	Phase B Current 121st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	58	Phase B Current 122nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	59	Phase B Current 123rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	60	Phase B Current 124th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	61	Phase B Current 125th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	62	Phase B Current 126th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	188	63	Phase B Current 127th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	189	0	Phase C Current 0th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	189	1	Phase C Current 1st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	189	2	Phase C Current 2nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	189	3	Phase C Current 3rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	189	4	Phase C Current 4th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	189	5	Phase C Current 5th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	189	6	Phase C Current 6th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	189	7	Phase C Current 7th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	190	0	Phase C Current 8th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	190	1	Phase C Current 9th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	190	2	Phase C Current 10th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	190	3	Phase C Current 11th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	190	4	Phase C Current 12th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	190	5	Phase C Current 13th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	190	6	Phase C Current 14th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	190	7	Phase C Current 15th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	191	0	Phase C Current 16th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	191	1	Phase C Current 17th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	191	2	Phase C Current 18th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	191	3	Phase C Current 19th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	191	4	Phase C Current 20th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	191	5	Phase C Current 21st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	191	6	Phase C Current 22nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	191	7	Phase C Current 23rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	191	8	Phase C Current 24th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	191	9	Phase C Current 25th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	191	10	Phase C Current 26th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	191	11	Phase C Current 27th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	191	12	Phase C Current 28th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	191	13	Phase C Current 29th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	191	14	Phase C Current 30th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	191	15	Phase C Current 31st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	0	Phase C Current 32nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	1	Phase C Current 33rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	2	Phase C Current 34th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	3	Phase C Current 35th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	4	Phase C Current 36th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	5	Phase C Current 37th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	6	Phase C Current 38th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	7	Phase C Current 39th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	8	Phase C Current 40th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	9	Phase C Current 41st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	10	Phase C Current 42nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	11	Phase C Current43rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	12	Phase C Current 44th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	13	Phase C Current 45th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	14	Phase C Current 46th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	15	Phase C Current 47th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	16	Phase C Current 48th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	17	Phase C Current 49th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	18	Phase C Current 50th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	192	19	Phase C Current 51st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	20	Phase C Current 52nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	21	Phase C Current 53rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	22	Phase C Current 54th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	23	Phase C Current 55th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	24	Phase C Current 56th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	25	Phase C Current 57th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	26	Phase C Current 58th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	27	Phase C Current 59th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	28	Phase C Current 60th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	29	Phase C Current 61st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	30	Phase C Current 62nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	192	31	Phase C Current 63rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	0	Phase C Current 64th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	1	Phase C Current 65th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	2	Phase C Current 66th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	3	Phase C Current 67th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	4	Phase C Current 68th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	5	Phase C Current 69th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	6	Phase C Current 70th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	7	Phase C Current 71st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	8	Phase C Current 72nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	9	Phase C Current 73rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	10	Phase C Current 74th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	11	Phase C Current 75th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	12	Phase C Current 76th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	13	Phase C Current 77th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	14	Phase C Current 78th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	15	Phase C Current 79th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	193	16	Phase C Current 80th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	17	Phase C Current 81st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	18	Phase C Current 82nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	19	Phase C Current 83rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	20	Phase C Current 84th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	21	Phase C Current 85th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	22	Phase C Current 86th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	23	Phase C Current 87th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	24	Phase C Current 88th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	25	Phase C Current 89th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	26	Phase C Current 90th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	27	Phase C Current 91st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	28	Phase C Current 92nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	29	Phase C Current 93rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	30	Phase C Current 94th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	31	Phase C Current 95th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	32	Phase C Current 96th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	33	Phase C Current 97th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	34	Phase C Current 98th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	35	Phase C Current 99th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	36	Phase C Current 100th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	37	Phase C Current 101st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	38	Phase C Current 102nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	39	Phase C Current 103rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	40	Phase C Current 104th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	41	Phase C Current 105th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	42	Phase C Current 106th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	43	Phase C Current 107th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	44	Phase C Current 108th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	193	45	Phase C Current 109th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	46	Phase C Current 110th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	47	Phase C Current 111th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	48	Phase C Current 112th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	49	Phase C Current 113th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	50	Phase C Current 114th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	51	Phase C Current 115th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	52	Phase C Current 116th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	53	Phase C Current 117th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	54	Phase C Current 118th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	55	Phase C Current 119th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	56	Phase C Current 120th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	57	Phase C Current 121st Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	58	Phase C Current 122nd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	59	Phase C Current 123rd Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	60	Phase C Current 124th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	61	Phase C Current 125th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	62	Phase C Current 126th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	193	63	Phase C Current 127th Harmonic Phase	+180 degree / -180 degree	0.01 degree	F6
30	194	0	Phase A-N / Phase A-B Voltage THD	+327.67% / -327.68%	0.01%	F7
30	195	0	Phase B-N / Phase B-C Voltage THD	+327.67% / -327.68%	0.01%	F7
30	196	0	Phase C-N / Phase C-A Voltage THD	+327.67% / -327.68%	0.01%	F7
30	197	0	Phase A Current THD	+327.67% / -327.68%	0.01%	F7
30	198	0	Phase B Current THD	+327.67% / -327.68%	0.01%	F7
30	199	0	Phase C Current THD	+327.67% / -327.68%	0.01%	F7
30	200	0	Phase A Current K-Factor	+327.67% / -327.68%	0.01%	F7
30	201	0	Phase B Current K-Factor	+327.67% / -327.68%	0.01%	F7
30	202	0	Phase C Current K-Factor	+327.67% / -327.68%	0.01%	F7
30	210	0	Phase Angle Phase A-N Voltage	+180 degree / -180 degree	0.01 degree	F6

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	210	1	Phase Angle Phase B-N Voltage	+180 degree / -180 degree	0.01 degree	F6
30	210	2	Phase Angle Phase C-N Voltage	+180 degree / -180 degree	0.01 degree	F6
30	211	0	Phase Angle Phase A Current	+180 degree / -180 degree	0.01 degree	F6
30	211	1	Phase Angle Phase B Current	+180 degree / -180 degree	0.01 degree	F6
30	211	2	Phase Angle Phase C Current	+180 degree / -180 degree	0.01 degree	F6
30	212	0	Phase Angle Phase A-B Voltage	+180 degree / -180 degree	0.01 degree	F6
30	212	1	Phase Angle Phase B-C Voltage	+180 degree / -180 degree	0.01 degree	F6
30	212	2	Phase Angle Phase C-A Voltage	+180 degree / -180 degree	0.01 degree	F6
30	213	0	Voltage Phase Sequence			F9
30	215	0	Block Window Average Status			F10
30	216	0	Block Window Average VA	+32767 VA / 0 VA	1 VA sec	F4
30	216	1	Block Window Average VAR	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	216	2	Block Window Average Watt	+32768 W / -32768 W	1 W sec	F4
30	217	0	Maximum Block Window Average VA	+32767 VA / 0 VA	1 VA sec	F4
30	217	1	Maximum Block Window Average Positive VAR	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	217	2	Maximum Block Window Average Negative VAR	0 VAR / -32768 VAR	1 VAR sec	F4
30	217	3	Maximum Block Window Average Positive Watt	+32768 W /0 W	1 W sec	F4
30	217	4	Maximum Block Window Average Negative Watt	0 W / -32768 W	1 W sec	F4
30	218	0	Minimum Block Window Average VA	+32767 VA / 0 VA	1 VA sec	F4
30	218	1	Minimum Block Window Average Positive VAR	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	218	2	Minimum Block Window Average Negative VAR	0 VAR / -32768 VAR	1 VAR sec	F4
30	218	3	Minimum Block Window Average Positive Watt	+32768 W /0 W	1 W sec	F4
30	218	4	Minimum Block Window Average Negative Watt	0 W / -32768 W	1 W sec	F4
30	219	0	Coincident Block Window Average VAR for Maximum Positive Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	219	1	Coincident Block Window Average VAR for Maximum Negative Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	219	2	Coincident Block Window Average VAR for Minimum Positive Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	219	3	Coincident Block Window Average VAR for Minimum Negative Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	223	0	Rolling Window Average Status			F10
30	224	0	Predictive Rolling Window Average VA	+32767 VA / 0 VA	1 VA sec	F4

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	224	1	Predictive Rolling Window Average VAR	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	224	2	Predictive Rolling Window Average W	+32768 W / -32768 W	1 W sec	F4
30	225	0	Rolling Window Average VA	+32767 VA / 0 VA	1 VA sec	F4
30	225	1	Rolling Window Average VAR	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	225	2	Rolling Window Average W	+32768 W / -32768 W	1 W sec	F4
30	226	0	Maximum Rolling Window Average VA	+32767 VA / 0 VA	1 VA sec	F4
30	226	1	Maximum Rolling Window Average Positive VAR	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	226	2	Maximum Rolling Window Average Negative VAR	0 VAR / -32768 VAR	1 VAR sec	F4
30	226	3	Maximum Rolling Window Average Positive Watt	+32768 W /0 W	1 W sec	F4
30	226	4	Maximum Rolling Window Average Negative Watt	0 W / -32768 W	1 W sec	F4
30	227	0	Minimum Rolling Window Average VA	+32767 VA / 0 VA	1 VA sec	F4
30	227	1	Minimum Rolling Window Average Positive VAR	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	227	2	Minimum Rolling Window Average Negative VAR	0 VAR / -32768 VAR	1 VAR sec	F4
30	227	3	Minimum Rolling Window Average Positive Watt	+32768 W /0 W	1 W sec	F4
30	227	4	Minimum Rolling Window Average Negative Watt	0 W / -32768 W	1 W sec	F4
30	228	0	Coincident Rolling Window Average VAR for Maximum Positive Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	228	1	Coincident Rolling Window Average VAR for Maximum Negative Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	228	2	Coincident Rolling Window Average VAR for Minimum Positive Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	228	3	Coincident Rolling Window Average VAR for Minimum Negative Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	247	0	Time of Use Status			F10
30	249	0	Time of Use Prior Season Average Select			F16
30	249	1	Time of Use Prior Month Average Select			F16
30	249	2	Time of Use Current Season Average Select			F16
30	249	3	Time of Use Current Month Average Select			F16
30	250	0	Time of Use Prior Season CT Ratio Numerator			F17
30	250	1	Time of Use Prior Season CT Ratio Denominator			F17
30	250	2	Time of Use Prior Season PT Ratio Numerator			F17
30	250	3	Time of Use Prior Season PT Ratio Denominator			F17
30	250	4	Time of Use Prior Month CT Ratio Numerator			F17

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	250	5	Time of Use Prior Month CT Ratio Denominator			F17
30	250	6	Time of Use Prior Month PT Ratio Numerator			F17
30	250	7	Time of Use Prior Month PT Ratio Denominator			F17
30	250	8	Time of Use Current Season CT Ratio Numerator			F17
30	250	9	Time of Use Current Season CT Ratio Denominator			F17
30	250	10	Time of Use Current Season PT Ratio Numerator			F17
30	250	11	Time of Use Current Season PT Ratio Denominator			F17
30	250	12	Time of Use Current Month CT Ratio Numerator			F17
30	250	13	Time of Use Current Month CT Ratio Denominator			F17
30	250	14	Time of Use Current Month PT Ratio Numerator			F17
30	250	15	Time of Use Current Month PT Ratio Denominator			F17
30	252	0	TOU Prior Season Reg1 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	252	1	TOU Prior Season Reg1 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	252	2	TOU Prior Season Reg1 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	252	3	TOU Prior Season Reg1 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	253	0	TOU Prior Season Reg1 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	253	1	TOU Prior Season Reg1 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	256	0	TOU Prior Season Reg2 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	256	1	TOU Prior Season Reg2 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	256	2	TOU Prior Season Reg2 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	256	3	TOU Prior Season Reg2 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	257	0	TOU Prior Season Reg2 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	257	1	TOU Prior Season Reg2 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	260	0	TOU Prior Season Reg3 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	260	1	TOU Prior Season Reg3 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	260	2	TOU Prior Season Reg3 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	260	3	TOU Prior Season Reg3 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	261	0	TOU Prior Season Reg3 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	261	1	TOU Prior Season Reg3 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	264	0	TOU Prior Season Reg4 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	264	1	TOU Prior Season Reg4 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	264	2	TOU Prior Season Reg4 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	264	3	TOU Prior Season Reg4 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	265	0	TOU Prior Season Reg4 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	265	1	TOU Prior Season Reg4 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	268	0	TOU Prior Season Reg5 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	268	1	TOU Prior Season Reg5 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	268	2	TOU Prior Season Reg5 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	268	3	TOU Prior Season Reg5 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	269	0	TOU Prior Season Reg5 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	269	1	TOU Prior Season Reg5 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	272	0	TOU Prior Season Reg6 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	272	1	TOU Prior Season Reg6 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	272	2	TOU Prior Season Reg6 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	272	3	TOU Prior Season Reg6 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	273	0	TOU Prior Season Reg6 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	273	1	TOU Prior Season Reg6 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	276	0	TOU Prior Season Reg7 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	276	1	TOU Prior Season Reg7 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	276	2	TOU Prior Season Reg7 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	276	3	TOU Prior Season Reg7 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	277	0	TOU Prior Season Reg7 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	277	1	TOU Prior Season Reg7 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	280	0	TOU Prior Season Reg8 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	280	1	TOU Prior Season Reg8 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	280	2	TOU Prior Season Reg8 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	280	3	TOU Prior Season Reg8 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	281	0	TOU Prior Season Reg8 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	281	1	TOU Prior Season Reg8 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	284	0	TOU Prior Season Total Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	284	1	TOU Prior Season Total Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	284	2	TOU Prior Season Total Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	284	3	TOU Prior Season Total Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	285	0	TOU Prior Season Total Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	285	1	TOU Prior Season Total Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	288	0	TOU Prior Month Reg1 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	288	1	TOU Prior Month Reg1 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	288	2	TOU Prior Month Reg1 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	288	3	TOU Prior Month Reg1 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	289	0	TOU Prior Month Reg1 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	289	1	TOU Prior Month Reg1 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	292	0	TOU Prior Month Reg2 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	292	1	TOU Prior Month Reg2 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	292	2	TOU Prior Month Reg2 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	292	3	TOU Prior Month Reg2 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	293	0	TOU Prior Month Reg2 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	293	1	TOU Prior Month Reg2 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	296	0	TOU Prior Month Reg3 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	296	1	TOU Prior Month Reg3 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	296	2	TOU Prior Month Reg3 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	296	3	TOU Prior Month Reg3 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	297	0	TOU Prior Month Reg3 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	297	1	TOU Prior Month Reg3 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	300	0	TOU Prior Month Reg4 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	300	1	TOU Prior Month Reg4 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	300	2	TOU Prior Month Reg4 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	300	3	TOU Prior Month Reg4 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	301	0	TOU Prior Month Reg4 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	301	1	TOU Prior Month Reg4 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	304	0	TOU Prior Month Reg5 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	304	1	TOU Prior Month Reg5 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	304	2	TOU Prior Month Reg5 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	304	3	TOU Prior Month Reg5 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	305	0	TOU Prior Month Reg5 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	305	1	TOU Prior Month Reg5 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	308	0	TOU Prior Month Reg6 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	308	1	TOU Prior Month Reg6 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	308	2	TOU Prior Month Reg6 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	308	3	TOU Prior Month Reg6 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	309	0	TOU Prior Month Reg6 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	309	1	TOU Prior Month Reg6 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	312	0	TOU Prior Month Reg7 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	312	1	TOU Prior Month Reg7 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	312	2	TOU Prior Month Reg7 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	312	3	TOU Prior Month Reg7 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	313	0	TOU Prior Month Reg7 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	313	1	TOU Prior Month Reg7 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	316	0	TOU Prior Month Reg8 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	316	1	TOU Prior Month Reg8 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	316	2	TOU Prior Month Reg8 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	316	3	TOU Prior Month Reg8 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	317	0	TOU Prior Month Reg8 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	317	1	TOU Prior Month Reg8 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	320	0	TOU Prior Month Total Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	320	1	TOU Prior Month Total Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	320	2	TOU Prior Month Total Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	320	3	TOU Prior Month Total Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	321	0	TOU Prior Month Total Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	321	1	TOU Prior Month Total Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	324	0	TOU Current Season Reg1 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	324	1	TOU Current Season Reg1 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	324	2	TOU Current Season Reg1 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	324	3	TOU Current Season Reg1 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	325	0	TOU Current Season Reg1 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	325	1	TOU Current Season Reg1 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	328	0	TOU Current Season Reg2 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	328	1	TOU Current Season Reg2 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	328	2	TOU Current Season Reg2 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	328	3	TOU Current Season Reg2 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	329	0	TOU Current Season Reg2 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	329	1	TOU Current Season Reg2 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	332	0	TOU Current Season Reg3 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	332	1	TOU Current Season Reg3 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	332	2	TOU Current Season Reg3 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	332	3	TOU Current Season Reg3 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	333	0	TOU Current Season Reg3 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	333	1	TOU Current Season Reg3 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	336	0	TOU Current Season Reg4 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	336	1	TOU Current Season Reg4 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	336	2	TOU Current Season Reg4 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	336	3	TOU Current Season Reg4 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	337	0	TOU Current Season Reg4 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	337	1	TOU Current Season Reg4 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	340	0	TOU Current Season Reg5 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	340	1	TOU Current Season Reg5 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	340	2	TOU Current Season Reg5 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	340	3	TOU Current Season Reg5 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	341	0	TOU Current Season Reg5 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	341	1	TOU Current Season Reg5 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	344	0	TOU Current Season Reg6 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	344	1	TOU Current Season Reg6 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	344	2	TOU Current Season Reg6 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	344	3	TOU Current Season Reg6 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	345	0	TOU Current Season Reg6 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	345	1	TOU Current Season Reg6 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	348	0	TOU Current Season Reg7 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	348	1	TOU Current Season Reg7 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	348	2	TOU Current Season Reg7 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	348	3	TOU Current Season Reg7 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	349	0	TOU Current Season Reg7 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	349	1	TOU Current Season Reg7 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	352	0	TOU Current Season Reg8 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	352	1	TOU Current Season Reg8 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	352	2	TOU Current Season Reg8 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	352	3	TOU Current Season Reg8 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	353	0	TOU Current Season Reg8 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	353	1	TOU Current Season Reg8 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	356	0	TOU Current Season Total Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	356	1	TOU Current Season Total Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	356	2	TOU Current Season Total Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	356	3	TOU Current Season Total Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	357	0	TOU Current Season Total Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	357	1	TOU Current Season Total Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	360	0	TOU Current Month Reg1 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	360	1	TOU Current Month Reg1 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	360	2	TOU Current Month Reg1 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	360	3	TOU Current Month Reg1 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	361	0	TOU Current Month Reg1 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	361	1	TOU Current Month Reg1 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	364	0	TOU Current Month Reg2 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	364	1	TOU Current Month Reg2 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	364	2	TOU Current Month Reg2 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	364	3	TOU Current Month Reg2 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	365	0	TOU Current Month Reg2 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	365	1	TOU Current Month Reg2 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	368	0	TOU Current Month Reg3 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	368	1	TOU Current Month Reg3 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	368	2	TOU Current Month Reg3 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	368	3	TOU Current Month Reg3 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	369	0	TOU Current Month Reg3 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	369	1	TOU Current Month Reg3 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	372	0	TOU Current Month Reg4 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	372	1	TOU Current Month Reg4 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	372	2	TOU Current Month Reg4 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	372	3	TOU Current Month Reg4 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	373	0	TOU Current Month Reg4 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	373	1	TOU Current Month Reg4 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	376	0	TOU Current Month Reg5 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	376	1	TOU Current Month Reg5 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	376	2	TOU Current Month Reg5 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	376	3	TOU Current Month Reg5 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	377	0	TOU Current Month Reg5 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	377	1	TOU Current Month Reg5 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	380	0	TOU Current Month Reg6 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	380	1	TOU Current Month Reg6 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	380	2	TOU Current Month Reg6 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	380	3	TOU Current Month Reg6 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	381	0	TOU Current Month Reg6 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	381	1	TOU Current Month Reg6 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	384	0	TOU Current Month Reg7 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	384	1	TOU Current Month Reg7 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	384	2	TOU Current Month Reg7 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	384	3	TOU Current Month Reg7 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	385	0	TOU Current Month Reg7 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	385	1	TOU Current Month Reg7 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	388	0	TOU Current Month Reg8 Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	388	1	TOU Current Month Reg8 Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	388	2	TOU Current Month Reg8 Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	388	3	TOU Current Month Reg8 Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	389	0	TOU Current Month Reg8 Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	389	1	TOU Current Month Reg8 Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	392	0	TOU Current Month Total Peak Demand Rcv. Watt (Quadrant 1 + 4)	+32768 Watt / 0 Watt	1 W sec	F4
30	392	1	TOU Current Month Total Peak Demand Dlv. Watt (Quadrant 2 + 3)	0 Watt / -32768 Watt	1 W sec	F4
30	392	2	TOU Current Month Total Peak Demand Rcv. VAR (Quadrant 1 + 2)	+32767 VAR / -32768 VAR	1 VAR sec	F4
30	392	3	TOU Current Month Total Peak Demand Dlv. VAR (Quadrant 3 + 4)	0 VAR / -32768 VAR	1 VAR sec	F4
30	393	0	TOU Current Month Total Coin. Dmd. VAR to Peak Dmd. Rcv. Watt	+32768 VAR/ -32768 VAR	1 VAR sec	F4
30	393	1	TOU Current Month Total Coin. Dmd. VAR to Peak Dmd. Dlv. Watt	+32768 VAR / -32768 VAR	1 VAR sec	F4
30	403	0	Pulse Accumulation Block Window Average / Maximum Block Status			F10
30	410	0	Nexus Internal Temperature	+3276.7 C / -3276.8 C	0.1 degree C	F19
30	411	0	Analog Input 1, Module 1	+327.67% / -327.68%	0.01%	F7
30	411	1	Analog Input 2, Module 1	+327.67% / -327.68%	0.01%	F7
30	411	2	Analog Input 3, Module 1	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	411	3	Analog Input 4, Module 1	+327.67% / -327.68%	0.01%	F7
30	411	4	Analog Input 5, Module 1	+327.67% / -327.68%	0.01%	F7
30	411	5	Analog Input 6, Module 1	+327.67% / -327.68%	0.01%	F7
30	411	6	Analog Input 7, Module 1	+327.67% / -327.68%	0.01%	F7
30	411	7	Analog Input 8, Module 1	+327.67% / -327.68%	0.01%	F7
30	412	0	Analog Input 1, Module 2	+327.67% / -327.68%	0.01%	F7
30	412	1	Analog Input 2, Module 2	+327.67% / -327.68%	0.01%	F7
30	412	2	Analog Input 3, Module 2	+327.67% / -327.68%	0.01%	F7
30	412	3	Analog Input 4, Module 2	+327.67% / -327.68%	0.01%	F7
30	412	4	Analog Input 5, Module 2	+327.67% / -327.68%	0.01%	F7
30	412	5	Analog Input 6, Module 2	+327.67% / -327.68%	0.01%	F7
30	412	6	Analog Input 7, Module 2	+327.67% / -327.68%	0.01%	F7
30	412	7	Analog Input 8, Module 2	+327.67% / -327.68%	0.01%	F7
30	413	0	Analog Input 1, Module 3	+327.67% / -327.68%	0.01%	F7
30	413	1	Analog Input 2, Module 3	+327.67% / -327.68%	0.01%	F7
30	413	2	Analog Input 3, Module 3	+327.67% / -327.68%	0.01%	F7
30	413	3	Analog Input 4, Module 3	+327.67% / -327.68%	0.01%	F7
30	413	4	Analog Input 5, Module 3	+327.67% / -327.68%	0.01%	F7
30	413	5	Analog Input 6, Module 3	+327.67% / -327.68%	0.01%	F7
30	413	6	Analog Input 7, Module 3	+327.67% / -327.68%	0.01%	F7
30	413	7	Analog Input 8, Module 3	+327.67% / -327.68%	0.01%	F7
30	414	0	Analog Input 1, Module 4	+327.67% / -327.68%	0.01%	F7
30	414	1	Analog Input 2, Module 4	+327.67% / -327.68%	0.01%	F7
30	414	2	Analog Input 3, Module 4	+327.67% / -327.68%	0.01%	F7
30	414	3	Analog Input 4, Module 4	+327.67% / -327.68%	0.01%	F7
30	414	4	Analog Input 5, Module 4	+327.67% / -327.68%	0.01%	F7
30	414	5	Analog Input 6, Module 4	+327.67% / -327.68%	0.01%	F7
30	414	6	Analog Input 7, Module 4	+327.67% / -327.68%	0.01%	F7
30	414	7	Analog Input 8, Module 4	+327.67% / -327.68%	0.01%	F7

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	432	0	Relay Delay, Relay 1	255 / 0	1 sec	F21
30	432	1	Relay Delay, Relay 2	255 / 0	1 sec	F21
30	432	2	Relay Delay, Relay 3	255 / 0	1 sec	F21
30	432	3	Relay Delay, Relay 4	255 / 0	1 sec	F21
30	432	4	Relay Delay, Relay 5	255 / 0	1 sec	F21
30	432	5	Relay Delay, Relay 6	255 / 0	1 sec	F21
30	432	6	Relay Delay, Relay 7	255 / 0	1 sec	F21
30	432	7	Relay Delay, Relay 8	255 / 0	1 sec	F21
30	432	8	Relay Delay, Relay 9	255 / 0	1 sec	F21
30	432	9	Relay Delay, Relay 10	255 / 0	1 sec	F21
30	432	10	Relay Delay, Relay 11	255 / 0	1 sec	F21
30	432	11	Relay Delay, Relay 12	255 / 0	1 sec	F21
30	432	12	Relay Delay, Relay 13	255 / 0	1 sec	F21
30	432	13	Relay Delay, Relay 14	255 / 0	1 sec	F21
30	432	14	Relay Delay, Relay 15	255 / 0	1 sec	F21
30	432	15	Relay Delay, Relay 16	255 / 0	1 sec	F21
30	444	0	Test Mode Block Average Status			F10
30	444	1	Test Mode Rolling Average Status			F10
30	445	0	Test Mode Block Average Total Watt	+32767 W / -32768 W	1 W sec	F4
30	445	1	Test Mode Rolling Average Total Watt	+32767 W / -32768 W	1 W sec	F4
30	453	0	Flicker Status			F10
30	455	0	Instantaneous Flicker V_{AN}	+32767 / -32768	1	F4
30	455	1	Instantaneous Flicker V_{BN}	+32767 / -32768	1	F4
30	455	2	Instantaneous Flicker V_{CN}	+32767 / -32768	1	F4
30	457	0	Short Term Flicker V_{AN}	+32767 / -32768	1	F4
30	457	1	Short Term Flicker V_{BN}	+32767 / -32768	1	F4
30	457	2	Short Term Flicker V_{CN}	+32767 / -32768	1	F4
30	458	0	Maximum Short Term Flicker V_{AN}	+32767 / -32768	1	F4
30	458	1	Maximum Short Term Flicker V_{BN}	+32767 / -32768	1	F4

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	458	2	Maximum Short Term Flicker V_{CN}	+32767 / -32768	1	F4
30	459	0	Minimum Short Term Flicker V_{AN}	+32767 / -32768	1	F4
30	459	1	Minimum Short Term Flicker V_{BN}	+32767 / -32768	1	F4
30	459	2	Minimum Short Term Flicker V_{CN}	+32767 / -32768	1	F4
30	464	0	Long Term Flicker V_{AN}	+32767 / -32768	1	F4
30	464	1	Long Term Flicker V_{BN}	+32767 / -32768	1	F4
30	464	2	Long Term Flicker V_{CN}	+32767 / -32768	1	F4
30	465	0	Maximum Long Term Flicker V_{AN}	+32767 / -32768	1	F4
30	465	1	Maximum Long Term Flicker V_{BN}	+32767 / -32768	1	F4
30	465	2	Maximum Long Term Flicker V_{CN}	+32767 / -32768	1	F4
30	466	0	Minimum Long Term Flicker V_{AN}	+32767 / -32768	1	F4
30	466	1	Minimum Long Term Flicker V_{BN}	+32767 / -32768	1	F4
30	466	2	Minimum Long Term Flicker V_{CN}	+32767 / -32768	1	F4
30	480	0	Total Vahour (Quadrants 1+2+3+4) in the Interval, Secondary	65535 / 0	1 VAH	F33
30	480	1	Positive VARhour (Quadrants 1+2) in the Interval, Secondary	65535 / 0	1 VARH	F33
30	480	2	Negative VARhour (Quadrants 3+4) in the Interval, Secondary	65535 / 0	1 VARH	F33
30	480	3	Positive Watthour (Quadrants 1+4) in the Interval, Secondary	65535 / 0	1 WH	F33
30	480	4	Negative Watthour (Quadrants 2+3) in the Interval, Secondary	65535 / 0	1 WH	F33
30	481	0	Positive Watthour (Quadrants 1+4) in the Interval, Primary	65535 / 0	1 WH	F33
30	481	1	Quadrant 1 Vahour in the Interval, Primary	65535 / 0	1 VAH	F33
30	481	2	Quadrant 1 VARhour in the Interval, Primary	65535 / 0	1 VARH	F33
30	481	3	Quadrant 4 Vahour in the Interval, Primary	65535 / 0	1 VAH	F33
30	481	4	Quadrant 4 VARhour in the Interval, Primary	65535 / 0	1 VARH	F33
30	481	5	Negative Watthour (Quadrants 2+3) in the Interval, Primary	65535 / 0	1 WH	F33
30	481	6	Quadrant 2 Vahour in the Interval, Primary	65535 / 0	1 VAH	F33
30	481	7	Quadrant 2 VARhour in the Interval, Primary	65535 / 0	1 VARH	F33
30	481	8	Quadrant 3 Vahour in the Interval, Primary	65535 / 0	1 VAH	F33
30	481	9	Quadrant 3 VARhour in the Interval, Primary	65535 / 0	1 VARH	F33
30	482	0	I2t Phase A in the Interval, Primary	65535 / 0	1 I^2t	F33

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	482	1	I2t Phase B in the Interval, Primary	65535 / 0	1 I^2t	F33
30	482	2	I2t Phase C in the Interval, Primary	65535 / 0	1 I^2t	F33
30	482	3	V2t Phase A in the interval, Primary	65535 / 0	1 V^2t	F33
30	482	4	V2t Phase B in the Interval, Primary	65535 / 0	1 V^2t	F33
30	482	5	V2t Phase C in the Interval, Primary	65535 / 0	1 V^2t	F33
30	483	0	Pulse Accumulation, Internal Input 1 in the Interval, Scaled	65535 / 0	1 Unit	F33
30	483	1	Pulse Accumulation, Internal Input 2 in the Interval, Scaled	65535 / 0	1 Unit	F33
30	483	2	Pulse Accumulation, Internal Input 3 in the Interval, Scaled	65535 / 0	1 Unit	F33
30	483	3	Pulse Accumulation, Internal Input 4 in the Interval, Scaled	65535 / 0	1 Unit	F33
30	483	4	Pulse Accumulation, Internal Input 5 in the Interval, Scaled	65535 / 0	1 Unit	F33
30	483	5	Pulse Accumulation, Internal Input 6 in the Interval, Scaled	65535 / 0	1 Unit	F33
30	483	6	Pulse Accumulation, Internal Input 7 in the Interval, Scaled	65535 / 0	1 Unit	F33
30	483	7	Pulse Accumulation, Internal Input 8 in the Interval, Scaled	65535 / 0	1 Unit	F33
30	484	0	Pulse Aggregation 1 in the Interval, Scaled	65535 / 0	1 Unit	F33
30	484	1	Pulse Aggregation 2 in the Interval, Scaled	65535 / 0	1 Unit	F33
30	484	2	Pulse Aggregation 3 in the Interval, Scaled	65535 / 0	1 Unit	F33
30	484	3	Pulse Aggregation 4 in the Interval, Scaled	65535 / 0	1 Unit	F33
30	485	0	Quadrant 1 Watthour in the Interval, Secondary	65535 / 0	1 WH	F33
30	485	1	Quadrant 4 Watthour in the Interval, Secondary	65535 / 0	1 WH	F33
30	485	2	Quadrant 2 Watthour in the Interval, Secondary	65535 / 0	1 WH	F33
30	485	3	Quadrant 3 Watthour in the Interval, Secondary	65535 / 0	1 WH	F33
30	486	0	Quadrant 1 Vahour in the Interval, Secondary	65535 / 0	1 VAH	F33
30	486	1	Quadrant 1 VARhour in the Interval, Secondary	65535 / 0	1 VARH	F33
30	486	2	Quadrant 4 Vahour in the Interval, Secondary	65535 / 0	1 VAH	F33
30	486	3	Quadrant 4 VARhour in the Interval, Secondary	65535 / 0	1 VARH	F33
30	486	4	Quadrant 2 Vahour in the Interval, Secondary	65535 / 0	1 VAH	F33
30	486	5	Quadrant 2 VARhour in the Interval, Secondary	65535 / 0	1 VARH	F33
30	486	6	Quadrant 3 Vahour in the Interval, Secondary	65535 / 0	1 VAH	F33
30	486	7	Quadrant 3 VARhour in the Interval, Secondary	65535 / 0	1 VARH	F33

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	487	0	Quadrant 1 Watthour in the Interval, Primary	65535 / 0	1 WH	F33
30	487	1	Quadrant 4 Watthour in the Interval, Primary	65535 / 0	1 WH	F33
30	487	2	Quadrant 2 Watthour in the Interval, Primary	65535 / 0	1 WH	F33
30	487	3	Quadrant 3 Watthour in the Interval, Primary	65535 / 0	1 WH	F33
30	488	0	Total Vahour (Quadrants 1+2+3+4) in the Interval, Primary	65535 / 0	1 VAH	F33
30	488	1	Positive VARhour (Quadrants 1+2) in the Interval, Primary	65535 / 0	1 VARH	F33
30	488	2	Negative VARhour (Quadrants 3+4) in the Interval, Primary	65535 / 0	1 VARH	F33
30	489	0	KYZ Pulse Output in the Interval, Relay 1	65535 / 0	1 pulse	F33
30	489	1	KYZ Pulse Output in the Interval, Relay 2	65535 / 0	1 pulse	F33
30	489	2	KYZ Pulse Output in the Interval, Relay 3	65535 / 0	1 pulse	F33
30	489	3	KYZ Pulse Output in the Interval, Relay 4	65535 / 0	1 pulse	F33
30	489	4	KYZ Pulse Output in the Interval, IR LED	65535 / 0	1 pulse	F33
30	490	0	Short Term Flicker Countdown	65535 / 0	1 second	F34
30	490	1	Long Term Flicker Countdown	65535 / 0	1 second	F34
30	498	0	First Index Reset Log	65535 / 0		F35
30	498	1	First Index Historical Log 1	65535 / 0		F35
30	498	2	First Index Historical Log 2	65535 / 0		F35
30	498	3	First Index Sequence of Events Log	65535 / 0		F35
30	498	4	First Index Digital Input Log	65535 / 0		F35
30	498	5	First Index Digital Output Log	65535 / 0		F35
30	498	6	First Index Flicker Log	65535 / 0		F35
30	498	7	First Index Waveform Log	65535 / 0		F35
30	498	8	First Index PQ Log	65535 / 0		F35
30	499	0	Last Index Reset Log	65535 / 0		F35
30	499	1	Last Index Historical Log 1	65535 / 0		F35
30	499	2	Last Index Historical Log 2	65535 / 0		F35
30	499	3	Last Index Sequence of Events Log	65535 / 0		F35
30	499	4	Last Index Digital Input Log	65535 / 0		F35
30	499	5	Last Index Digital Output Log	65535 / 0		F35

OBJECT	EIG LINE	EIG POINT	Description	Range	Units	Type
30	499	6	Last Index Flicker Log	65535 / 0		F35
30	499	7	Last Index Waveform Log	65535 / 0		F35
30	499	8	Last Index PQ Log	65535 / 0		F35

CHAPTER 8

Communication Data Formats

This chapter expands upon information listed in the Nexus® 1252/1262/1272 Meters' DNP Object Mapping (Chapter 7). Section Headings (F1, F2, etc) refer to the value in the Object Mapping's "Type" column.

8.1: Type F1 Day of Week

This point contains a 16-bit number, associated with the days of the week as follows:

Value	Current Day of the Week
0001H	Sunday
0002H	Monday
0003H	Tuesday
0004H	Wednesday
0005H	Thursday
0006H	Friday
0007H	Saturday

8.2: Type F2 Internal Inputs - High Speed Sampling - Delta

These points indicate whether a High Speed Digital Input, sampled at the rate of waveform capture, changed state during the last cycle. A bit value of 1 indicates a change occurred; a bit value of 0 indicates no change occured.

Example:
Object 1, Indexes 0-7, HSI Delta Inputs, might contain the following data:

Index	0	1	2	3	4	5	6	7
Values	0	0	0	0	0	1	0	0
HSI Delta	1	2	3	4	5	6	7	8
Meaning						Change		
Interpretation	Input 6 changed state at least once during the last cycle.							

8.3: Type F3 Internal Inputs - High Speed Sampling - Current State

These points indicate whether a High Speed Digital Input, sampled at the rate of waveform capture, is open or closed. A bit value of 1 indicates open; a bit value of 0 indicates closed.

Example:
Object 1, Indexes 8-15, HSI Current State Inputs, might contain the following data:

Index	8	9	10	11	12	13	14	15
Values	0	1	1	0	0	0	0	1
HSI Current States	1	2	3	4	5	6	7	8
Meaning	Closed	Open	Open	Closed	Closed	Closed	Closed	Open
Interpretation	Inputs 2, 3 and 8 are now open.							

8.4: Type F4 Secondary Voltage, Current, VA, VAR, Watts or Flicker

This value can be in 16-bit format or 32-bit format.

- **A value in 16-bit format may have the following characteristics:**

Range: +3276.7 / 0.0 V sec
+32.767 / 0.000 A sec
+32767 / -0 VA sec
+32767 / -32767 VAR sec, W sec
+3276.7 / 0.0 Hz

Unit: 0.1 V sec
0.001 A sec
1 VA, VAR, W sec
0.1 Hz

Each point contains a 16 bit signed (2's compliment) number. Positive values have the most significant bit clear and have the same magnitude as an unsigned integer. Negative values have the most significant bit set. The magnitude of a negative value is found by complimenting (inverting) all of the bits and adding 1.

Example:
Object 30, Index 5, Tenth second Phase A Current might contain the following data:

2 byte signed integer (Hex)	00125H
Most significant bit	0
2 byte integer (Decimal)	+293
0.001 Amp secondary	+0.293 Amp secondary

Object 30, Index 16, Tenth second Phase A VAR, might contain the following data:

2 byte signed integer (Hex)	00125H
Most significant bit	0
2 byte signed integer (Decimal)	+293
VAR secondary	+293 VAR secondary

Object 30, Index 16, Tenth second Phase A VAR, might contain the following data:

2 byte signed integer (Hex)	OFEDBH
Most significant bit	1
Compliment	00124H
Increment	00125H
2 byte signed integer (Decimal)	-293
VAR secondary	-293 VAR secondary

- **A value in 32-bit format may have the following characteristics:**

Range: +32768 / -32768
Unit: 1/65536 V, A, VA, VAR, W or Hz

Each point contains a 32 bit signed (2's compliment) number. Positive values have the most significant bit clear and have the same magnitude as an unsigned integer. Negative values have the most signifcant bit set. The magnitude of a negative value is found by complimenting (inverting) all of the bits and adding 1.

Example:
Object 30, Index 16, Tenth second Phase A VAR might contain the following data:

4 byte signed integer (Hex)	00014000H
Most significant bit	0
4 byte signed integer (Decimal)	+81920
1/65536 VAR secondary	+1.25 VAR secondary

Example:
Object 30, Index 16, Tenth second Phase A VAR might contain the following data:

4 byte signed integer (Hex)	FFFEC000H
Most significant bit	1
Compliment	00013FFFH
Increment	00014000H
4 byte signed integer (Decimal)	-81920
1/65536 VAR secondary	-1.25 VAR secondary

8.5: Type F5 Power Factor

Range: 3.999 / 0.000
Unit: 0.001 PF

Each point contains a 16 bit unsigned number. This number varies from 0000H – 0F9FH, or 0 to 3999 in decimal. This representation allows for expressing Power Factor from 0 to 1 in the four quadrants, as follows: (When polled in 32-bit format, the upper 16-bit is returned as 0000H if positive, as FFFFH if negative.)

Quadrant	Value		PF	Value		PF	Value		PF
	Hex	Dec		Hex	Dec		Hex	Dec	
1	0000H	0	0.000	01F4H	500	0.500	03E7H	999	0.999
4	03E8H	1000	1.000	05DCH	1500	0.500	07CFH	1999	0.001
3	07D0H	2000	0.000	09C4H	2500	0.500	0BB7H	2999	0.999
2	0BB8H	3000	1.000	0DACH	3500	0.500	0F9FH	3999	0.001

Application of sign and lead/lag labels (9CFH is -0.500 Lead or +0.500 Lag) depends on the Programmable Setting called Power Factor Labeling.

Example:
Object 30, Index 25, Tenth second Phase A Power Factor, might contain the following data:

Address	00171
Value	0390H
Decimal	912
PF	Q1, 0.912

Example:
Object 30, Index 25, Tenth second Phase A Power Factor, might contain the following data:

Address	00171
Value	0C10H
Decimal	3088
PF	Q2, 0.912

8.6: Type F6 Angle

Range: +180 / -180
Unit: 0.01 degree

Each point contains a 16 bit signed (2's compliment) number. Positive values have the most significant bit clear, and have the same magnitude as an unsigned integer. Negative values have the most significant bit set. The magnitude of a negative value is found by complimenting (inverting) all of the bits and adding 1. (When polled in 32-bit format, the upper 16-bit is returned as 0000H if positive, as FFFFH if negative.)

Example:
Object 30, Index 29, Tenth second Phase A-N Voltage to Auxiliary Voltage Phase Angle, might contain the following data:

Value	08BBH
Most significant bit	0
Decimal	+2235
Angle	+22.35 Degrees

Example:
Object 30, Index 29, Tenth second Phase A-N Voltage to Auxiliary Voltage Phase Angle, might contain the following data.

Value	F745H
Most significant bit	1
Compliment	08BAH
Increment	08BBH
Decimal	-2235
Angle	-22.35 Degrees

8.7: Type F7 Percentage

Range: +327.67% / - 327.68%
Unit: 0.01%

Each point contains a 16 bit signed (2's compliment) number. Positive values have the most significant bit clear, and have the same magnitude as an unsigned integer. Negative values have the most significant bit set. The magnitude of a negative value is found by complimenting (inverting) all of the bits and adding 1. (When polled in 32-bit format, the upper 16-bit is returned as 0000H if positive, as FFFFH if negative.)

Example:
Object 30, Index 59, One second Voltage Imbalance, might contain the following data:

Value	08BBH
Most significant bit	0
Decimal	+2235
Percent	+22.35%

Object 30, Index 59, One second Voltage Imbalance, might contain the following data:

Value	F745H
Most significant bit	1
Compliment	08BAH
Increment	08BBH
Decimal	-2235
Percent	-22.35%

8.8: Type F8 Energy Counter (Binary / Secondary)

Range: 4,294,967,295 / 0 per unit

Unit:
Scaling value in the Communicator EXT Programmable Settings will determine the unit. Scaling is used to select a unit in the power of 10. For example, 1 = x10, 2 = x100, etc. The scaling value can be 0 to 15.
When the Scaling is 0, the units are 1 Vah, VARh or Wh secondary.
When the Scaling is 1, the units are 10 Vah, VARh or Wh secondary.
When the Scaling is 2, the units are 100 Vah, VARh or Wh secondary and so on.
Internally, the Nexus® meter can have 9,999,999,999,999,999 / 0 VAh, VARh or Wh secondary.

Each point contains a 4-byte usigned integer.

Example:
Object 30, Index 0, VAhour, might contain the following data:

Index	0
4 byte unsigned integer	06476164H
Decimal	105341284
Scaling	2
Interpretation	10,534,128,400 VAh secondary

When polled in 16-bit format, the lower 2-byte unsigned integer will return.

Object 30, Index 0, VAhour, might contain the following data:

Index	0
2 byte unsigned integer	6164H
Decimal	24932
Scaling	2
Interpretation	2,493,200 VAh secondary

8.9: Type F9 Phase Sequence

This point contains a 16 bit unsigned integer, associated with the Phase Sequence as follows:
(When polled in 32-bit format, the upper 16-bit is returned as 0000H if positive, as FFFFH if negative.)

Value (Hex)	Phase Sequence
0000H	A-B-C
0001H	C-B-A

8.10: Type F10 Average Status

Each point contains a 16 bit unsigned integer, associated with the Average Status as follows:
(When polled in 32-bit format, the upper 16-bit is returned as 0000H if positive, as FFFFH if negative.)

Value (Hex)	Average Status
0000H	Not yet available
0001H	Available

8.11: Type F11 Limit States

A bit value of 1 means that the particular limit has been passed, while a bit value of 0 means that the particular limit has not been passed.

Example:
Object 1, Index 16-23, Limit States, Value 1 Comparison, 1–8, might contain the following data:

Index	16	17	18	19	20	21	22	23
Values	0	0	0	0	0	1	0	0
Limit	8	7	6	5	4	3	2	1
Passed	No	No	No	No	No	Yes	No	No
Interpretation	Limit 3 is currently passed; all others are not passed.							

8.12: Type F12 Internal Inputs - Low Speed Sampling - Current State

Each point is associated with the eight Status Inputs, sampled at a rate of 100 times/ second and debounced, requiring 2 consecutive readings to indicate a changed state.

- A bit value of 1 means the input is open; a bit value of 0 means the input is closed.

Example:
Object 1, Indexes 80-87, Low Speed Input States, might contain the following data:

Index	80	81	82	83	84	85	86	87
Values	0	1	0	1	0	0	0	1
LS Input States	1	2	3	4	5	6	7	8
Meaning	Closed	Open	Closed	Open	Closed	Closed	Closed	Open
Interpretation	Inputs 2, 4 and 8 are open; all other inputs are closed.							

8.13: Type F13 External Digital Input States

Each point is associated with the eight External Digital Inputs in an External Digital Input Module.

- A bit value of 1 means the input is open; a bit value of 0 means the input is closed.

Example:
Object 1, Indexes 88-95, Digital Input States, Module 1, might contain the following data:

Index	88	89	90	91	92	93	94	95
Values	0	1	0	1	0	0	0	1
External Digital Input States	1	2	3	4	5	6	7	8
Meaning	Closed	Open	Closed	Open	Closed	Closed	Closed	Open
Interpretation	Inputs 2, 4 and 8 are open; all other inputs are closed.							

8.14: Type F14 External Input Accumulations / Cumulative Demand

Range: 4,294,967,295/0

Unit: Accumulated Transitions, Accumulated Primary Watts

Each point contains a 4 byte unsigned integer. Scaling is not necessary for this value.
Use 0 for Scaling.

Example:
Object 20, Index 10, Input Accumulation 1, Module 1, might contain the following data:

Index	5
4 byte unsigned integer	06476164H
Decimal	105341284
Interpretation	105,341,284 Accumulated Transitions

8.15: Type F15 Energy Counter (Binary / Primary)

Range: 4,294,967,295 / 0 per unit

Unit:
Scaling value in the Communicator EXT Programmable Settings will determine the unit. Scaling is used to select a unit in the power of 10. For example: 1 = x10, 2 = x100, etc. The Scaling Value can be 0 to 15.
When the Scaling is 0, the units are 1 Vah, VARh or Wh secondary.
When the Scaling is 1, the units are 10 Vah, VARh or Wh secondary.
When the Scaling is 2, the units are 100 Vah, VARh or Wh secondary and so on.

- Each point contains a 4-byte unsigned integer.

Example:
Object 20, Index 37, Received Watthour (Quadrant 1 + 4), might contain the following data:

Index	37
4 byte unsigned integer	06476164H
Decimal	105341284
Scaling	2
Interpretation	2,493,200 Wh Primary

When polled in 16-bit format, the lower 2 byte unsigned integer will return.

Object 20, Index 37, Received Watthour (Quadrant 1 + 4), might contain the following data:

Index	37
2 byte unsigned integer	6164H
Decimal	24932
Scaling	2
Interpretation	2,493,200 Wh Primary

8.16: Type F16 Average Select

Each point contains a 16-bit number associated with the selection of an average as follows:
(When polled in 32-bit format, the upper 16-bit is returned as 0000H if positive, as FFFFH if negative.)

Value	Average
0000H	Block Window
0001H	Rolling Window

8.17: Type F17 CT/PT Ratio

Length: 2 Consecutive Points

Each pair of points represents a CT or PT Ratio. The first point is the numerator; the second point is the denominator. Each point contains a 4-byte unsigned integer. When polled in 16-bit format, only the lower 16-bit is returned.

Example:
Object 30, Indexes 1815-1816, Time of Use Prior Season CT Ratio, might contain the following data:

Index	1815	1816
Values	000007D0H	0000005H
Decimal	2000	5
Meaning	2000:5	
Interpretation	A 2000 - to - 5 CT Ratio	

8.18: Type F18 Block Window Average for Internal Inputs

Range: 4,294,967,295 / 0 per Unit

Unit:
Scaling value in the Communicator EXT Programmable settings will determine the unit. Scaling is used to select a unit in the power of 10 (1=x10, 2=x100 and so on). Scaling value can be 0 to 15.
When the Scaling is 0, the units are 1 Vah, VARh or Wh secondary.
When the Scaling is 1, the units are 10 Vah, VARh or Wh secondary.
When the Scaling is 2, the units are 100 Vah, VARh or Wh secondary and so on.
Internally, Nexus® meters can have 18,446,744,073,709,551,615 / 0 VAh, VARh or Wh secondary.

Each pair of points contains a 4 byte unsigned integer.

Example:
Object 20, Index 425, Block Window Average Internal Input 1, might contain the following data:

Index	425
4 byte unsigned integer	06476164H
Decimal	105341284
Scaling	2
Interpretation	10,534,128,400 Wh Primary

When polled in 16-bit format, the lower 2 byte unsigned integer will return.

Object 20, Index 425, Block Window Average Internal Input 1, might contain the following data:

Index	425
2 byte unsigned integer	6164H
Decimal	24932
Scaling	2
Interpretation	2,493,200 Wh Primary

8.19: Type F19 Temperature

Range: +3276.7 C / - 3276.8 C

Unit: 0.1 degree C

This register contains a 16 bit signed (2's compliment) number. Positive values have the most significant bit clear, and have the same magnitude as an unsigned integer. Negative values have the most significant bit set. The magnitude of a negative value is found by complimenting (inverting) all of the bits and adding 1. (When polled in 32-bit format, the upper 16-bit is returned as 0000H if positive, as FFFFH if negative.)

Example:
Object 30, Index 2048, Nexus® Internal Temperature, might contain the following data:

Value	00DFH
Most significant bit	0
Decimal	+223
Celsius	+22.3 degree C

Object 30, Index 2048, Nexus® Internal Temperature, might contain the following data:

Value	FF21H
Most significant bit	1
Compliment	00DEH
Increment	00DFH
Decimal	-223
Celsius	-22.3 degree C

8.20: Type F20 Relay Logic States

Each point is associated with the 16 Limits or Relays.

- A bit value of 1 means TRUE, while a bit value of 0 means FALSE. TRUE and FALSE result from the AND, OR, XOR, Hysteresis and NOT of two input values of 1 or 0.

Example:
Object 1, Index 152-159, Relay Logic Input 1, Logic Tree 1-8, might contain the following data:

Index	152	153	154	155	156	157	158	159
Values	0	0	0	0	0	1	0	0
Logic Tree	8	7	6	5	4	3	2	1
State	False	False	False	False	False	True	False	False
Interpretation	The first input to Relay Logic Tree 6 is True; all others are False.							

8.21: Type F21 Relay Delays

Each point contains an unsigned integer which is a count-down delay. A relay logic tree must be stable for the duration of the delay before triggering a relay. Delays are preloaded when the Gate G value changes. They are decremented every pass thereafter, until they reach zero.
(When polled in 32-bit format, the upper 16-bit is returned as 0000H if positive, as FFFFH if negative.)

Example:
Object 30, Index 2081, Delay Timer, Relay 1, might contain the following data:

Value	04H
Bytes	04H
Interpretation	Relay 1 has 4 seconds of delay remaining.

8.22: Type F22 Desired Relay States

Each point is associated with the 16 Relays.

A bit value of 1 means the relay should be energized (connected to Normal Open); a bit value of 0 means the relay should be de-energized (connected to Normal Close). These are states pending transmission to the relays.

Example:
Object 1, Indexes 392-399, Desired Relay States, Relays 1-8, might contain the following data:

Index	392	393	394	395	396	397	398	399
Values	0	0	0	0	0	1	0	0
Relay	8	7	6	5	4	3	2	1
State	NC	NC	NC	NC	NC	NO	NC	NC
Interpretation	Relay 3 should be energized; all others should be de-energized.							

8.23: Type F23 Relay Pending Updates

Each point is associated with the 16 Relays.

A bit value of 1 means the relay needs to be updated; a bit value of 0 means the relay does not need to be updated.

Example:
Object 1, Indexes 408-415, Relay Pending Updates, Relays 1-8, might contain the following data:

Index	408	409	410	411	412	413	414	415
Values	0	0	0	0	0	1	0	0
Relay	8	7	6	5	4	3	2	1
State						Update		
Interpretation	Relay 3 needs to be updated.							

8.24: Type F24 Shadowed Relay State

Each point is associated with the 16 Relays.

A bit value of 1 means the relay is energized (connected to Normal Open); a bit value of 0 means the relay is de-energized (connected to Normal Close). These are states not confirmed by a status poll of the external device.

Example:
Object 1, Indexes 424-431, Shadowed Relay States, Relays 1-8, might contain the following data:

Index	424	425	426	427	428	429	430	431
Values	0	0	0	0	0	1	0	0
Relay	8	7	6	5	4	3	2	1
State	NC	NC	NC	NC	NC	NO	NC	NC
Interpretation	Relay 3 is energized; all others are de-energized.							

8.25: Type F25 Confirmed Polled Relay State

Each point is associated with the 16 Relays.

A bit value of 1 means the relay is energized (connected to Normal Open); a bit value of 0 means the relay is de-energized (connected to Normal Close). These states are confirmed by a status poll of the external device.

Example:
Object 10, Indexes 0-7, Confirmed Polled Relay States, Relays 1-8, might contain the following data:

Index	0	1	2	3	4	5	6	7
Values	0	0	0	0	0	1	0	0
Relay	1	2	3	4	5	6	7	8
State	NC	NC	NC	NC	NC	NO	NC	NC
Interpretation	Relay 6 is energized; all others are de-energized.							

8.26: Type F26 Valid Flag for Confirmed Relay State

Each point is associated with the 16 Relays.

A bit value of 1 means the relay is valid; a bit value of 0 means the relay is invalid.

Example:
Object 1, Indexes 440-447, Valid Flag for Confirmed Relay States, Relays 1-8, might contain the following data:

Index	440	441	442	443	444	445	446	447
Values	1	1	1	1	0	0	0	0
Relay	8	7	6	5	4	3	2	1
Valid	Valid	Valid	Valid	Valid	Invalid	Invalid	Invalid	Invalid
Interpretation	Relays 5-8 have been polled - Confirmed States are valid.							

8.27: Type F27 Locked Relay

Each point is associated with the 16 Relays.

A bit value of 1 means the relay is locked; a bit value of 0 means the relay is unlocked and Limits of Relay Logic Trees and Relays determine the state of the relay.

Example:
Object 1, Indexes 456-463, Confirmed Polled Relay States, Relays 1-8, might contain the following data:

Index	456	457	458	459	460	461	462	463
Values	0	0	0	0	0	1	0	0
Relay	8	7	6	5	4	3	2	1
Locked	No	No	No	No	No	Yes	No	No
Interpretation	Relay 3 is locked; all others are unlocked.							

8.28: Type F28 Locked Relay State

Each point is associated with the 16 Relays.

A bit value of 1 means the relay is energized (connected to Normal Open); a bit value of 0 means the relay is de-energized (connected to Normal Close).

Example:
Object 1, Indexes 472-479, Confirmed Polled Relay States, Relays 1-8, might contain the following data:

Index	472	473	474	475	476	477	478	479
Values	0	0	0	0	0	1	0	0
Relay	8	7	6	5	4	3	2	1
Locked	NC	NC	NC	NC	NC	NO	NC	NC
Interpretation	Relay 3 is locked energized; all others (if locked) are locked de-energized.							

8.29: Type F29 Action Points

Each point, when acted upon with a Control Relay Output Block, will perform a different function.

Index	**Action**
16	All Logs will be reset.
17	All Maximums will be reset.
18	All Minimums will be reset.
19	All Energy Readings will be reset.
20	Time of Use Data will be reset.
21	A waveform will be captured.
22	Pulse Accumulations will be reset.
23	The meter is temporarily switched to Boot Mode using default communication parameters of: Modbus RTU, Address 1, 9600 Baud, 8n1 on all ports. Communicator EXT Software can Flash update the Run-Time Code or Programmable Settings on this or any other Comm Port at this time. If Flash updating does not take place for 30 seconds while in this mode, the meter returns to the regular Run-Time mode with the programmed settings on all ports.

8:30: Type F30 NVRAM Battery Status

For a Nexus® 1262/1272 meter with optional memory installed, this bit reports the status of the battery. For Nexus® 1252 meters, or units with no memory, this bit is undefined.

A value of '0' indicates the battery is OK; a value of '1' indicates that the battery is not OK. Battery status is reevaluated on power-up and approximately every 24 hours thereafter.

8.31: Type F31 Digital Input Modules Data States

Each point is associated with the status of the data received from the Digital Input Modules.

A bit value of 0 means the data from this Digital Input Module is not yet valid; either the module is not yet present or has not yet been polled. A bit value of 1 means that the data from this Digital Input Module has been polled at least once and is valid.

Example:
Object 1, Indexes 504-511, Digital Input Modules Data States, might contain the following data:

Index	504	505	506	507	508	509	510	511
Values	0	0	0	0	0	0	0	1
Digital Input Module	None	None	None	None	4	3	2	1
Valid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Valid
Interpretation	Data from Digital Input Module 1 is valid; data from Digital Input Modules 2-4 is not valid.							