



GW 4

Gateway Interface Converter

APPLICATIONS

The Gateway GW 4 interface converter is used to convert the Woodward CAN bus protocol to one of several available bus or interface protocols. A single GW 4 connected to the CAN network will transmit data from the available controls on the network to an external device, such as a PC or PLC. Up to eight Woodward GCP-20/30 or MFR-2/3 control units and seven LS 4 circuit breaker controls can be connected to one GW 4. Please see the individual control product manuals for a listing of the particular addresses that will be transmitted.

The GW 4 is able to adapt the physical interface for different transmission protocols including the transmission rates, data formats, and operations. Thus it is possible to view the data with an HMI package as well as configure a broad range of Woodward controls by using the LeoPC software program.

The following is a list of hardware and software/protocols currently developed for the GW 4 Gateway. Additional protocols could possibly be developed upon request. Please consult your Woodward sales branch.

From/To → CAN bus (CAL 2.0)

To/From → RS-232 Modbus
→ RS-485 Modbus
→ Profibus DP Slave
→ RS-232 LDP* via modem
→ RS-232 LDP*

* LDP = Leonhard Data Protocol

DESCRIPTION

Features

- Converting from CAN bus (CAL2.0) to one of the industry accepted protocols
- Setting of various interfaces, buses, and protocols
- Transmission of process data of an autonomous network coupled via CAN bus
- Intervention into processes using a PC, a PLC or a control system
- Amplifier serving to bridge large sections in popular networks
- Visualization of the process image
- Remote configuration of named Woodward units and devices
- Interface to the LeoPC1 software program used for configuration, visualization, remote control, data logging, event recorder, and user management
- Two-line LC display
- Communication networks are electrically isolated

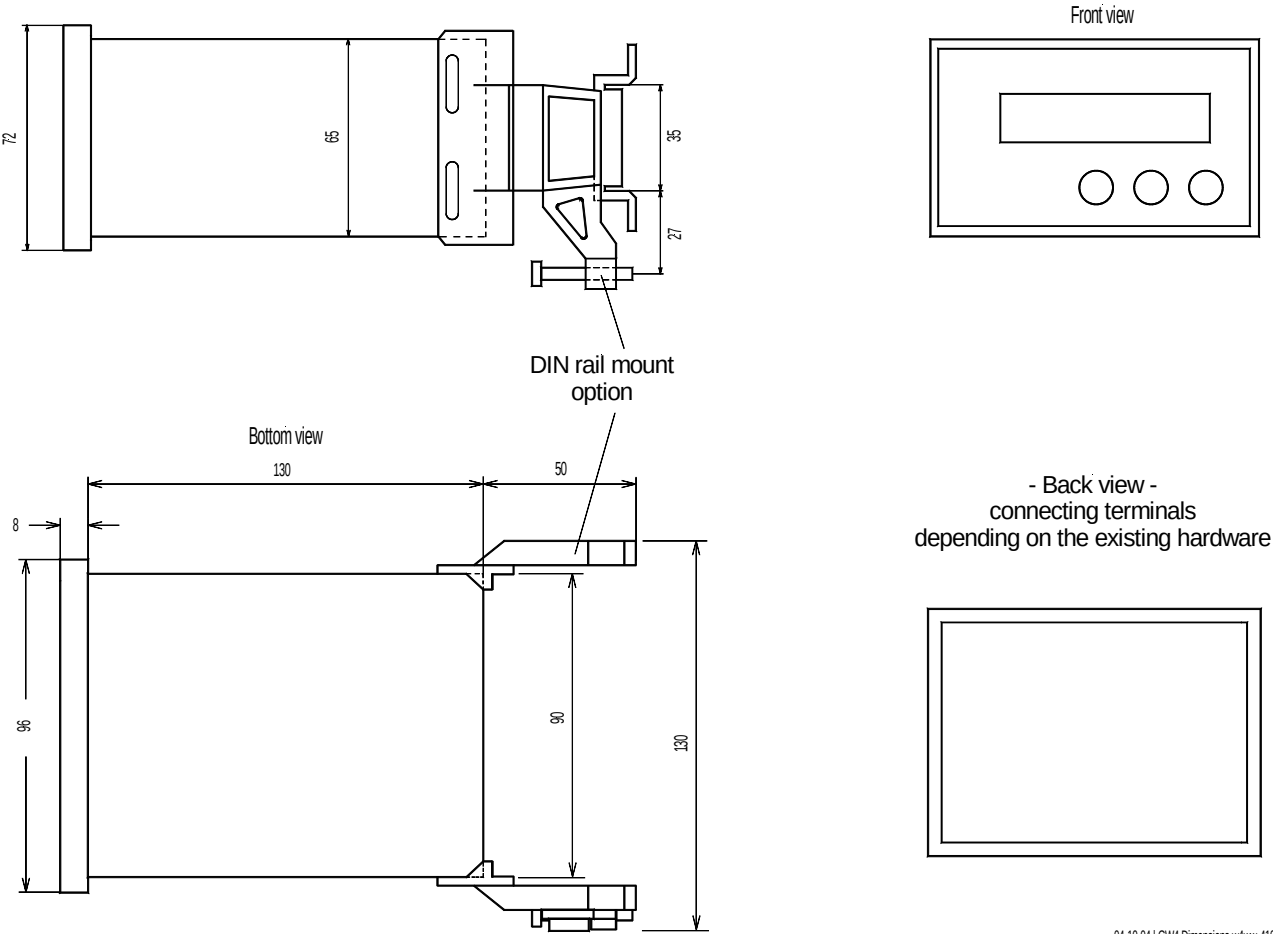
For wiring diagrams and complete list of parameters please request the GW 4 technical manual.

- Interface converter for several interface types using different hardware
- Data converting from CAN (CAL 2.0) to
 - RS-232 Modbus
 - RS-485 Modbus
 - Profibus DP Slave
 - RS-232 LDP* Mdm.
 - RS-232 LDP*
- Front panel configurable
- UL/cUL Listed

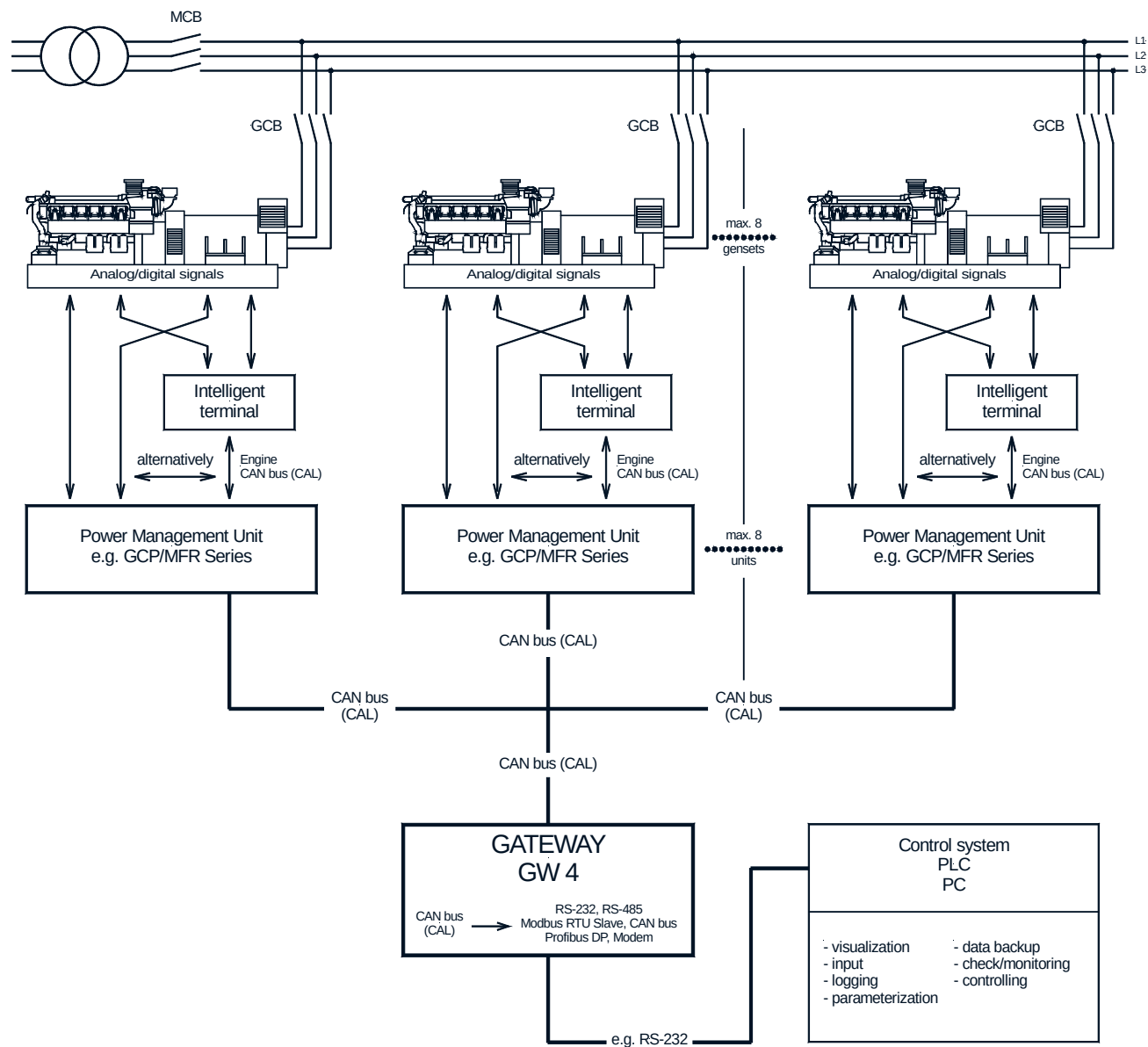
SPECIFICATIONS

Power supply	24 Vdc (18 to 32 Vdc)	Housing	Type APRANORM DIN 43 700
Intrinsic consumption	max. 12 W	Dimensions	96×72×130 mm
Ambient temperature	-20 to 70 °C	Front cutout	91×67 mm
Ambient humidity	95 %, non-condensing	Connection	screw/plug terminals depending on connector 1.5 mm² or 2.5 mm²
		Front	insulating surface
		Protection system	IP 21
		Weight	depending on version, approx. 800 g
		Disturbance test (CE)	tested according to applicable EN guidelines

DIMENSIONS



APPLICATION EXAMPLE



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SYSTEM OVERVIEW

Hardware	Software and Protocol			
	Order Code	MOD bus RTU slave	Profibus DP Slave	Leonhard-Data-Protocol → LeoPC
		MOD	---	LDP
RS-232	232	②	×	●
RS-485	485	●	×	●
Profibus DP	PRO	×	●	×
External modem	MDM	×	×	●

● possible; × not possible; ② up to 2 stations can be connected

TYPE OVERVIEW

Type						
Mounting [B] = flush-mounting; (for DIN-rail mounting please order a set of brackets; this can be mounted easily using the attached description; P/N 8923-1023)						
Hardware						
Software/transmission protocol						
					Complete order context	P/N
GW 4	B/	485	MOD	→	GW 4B/485/MOD	5448-901
GW 4	B/	232	MOD	→	GW 4B/232/MOD	5448-895
GW 4	B/	PRO		→	GW 4B/PRO	5448-902
GW 4	B/	232	LDP	→	GW 4B/232/LDP/MDM02	8445-1013
GW 4	B/	232	LDP	→	GW 4B/232/LDP	5448-910

Subject to technical modifications.

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