

ProtoCessor ProtoNode Quick Setup Guide

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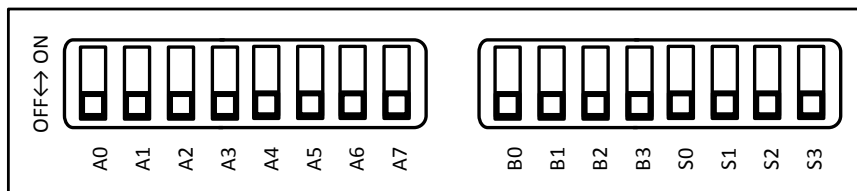
The *ProtoCessor Startup Manual - P/N 91340* can be downloaded from the Toshiba website at: <https://www.toshiba.com/tic/industrial/options-accessories/industrial-bus>. Click on *View Technical Downloads > Manuals> ProtoCessor ProtoNode RER Startup Manual - 91340-000*, and download the manual.

1. Set the MAC Address (DIP Switches A0 – A7) for BACnet MS/TP or Modbus RTU, and Metasys N2 Node-ID.

Only 1 MAC address is set for ProtoNode regardless of how many devices are connected to ProtoNode.

BACnet MS/TP MAC addresses between 1 (A0 ON, A1-A7 OFF) to 127 (A0-A6 ON, A7 OFF) are MAC Master Addresses and can be auto-discovered by BMS frontend systems that support Auto Discovery.

Note: Never set a BACnet MS/TP MAC Address from 128 to 255.



NOTE: When setting DIP Switches, ensure that power to the ProtoCessor is OFF.

Figure 1 DIP Switches: A0-A7 MAC Address / B0-B3 Serial Baud Rate / S0-S3 Config File Select Key

2. Set the Device Instance (Node-ID) for BACnet MS/TP and BACnet/IP

The A Bank of DIP switches are also used to set the BACnet Device Instance. See the *ProtoCessor Startup Manual, P/N 91340*

3. Set COM setting (DIP Switches B0 – B3)

Set the baud rate per Table 1. All devices connected to ProtoCessor MUST ALL have the same Baud Rate, Data Bits, Stop Bits, and Parity.

The preset default serial (COM) port settings for the ProtoCessor are:

- Protocol – BACnet MS/TP or Modbus RTU
- 9600 baud
- Even parity
- 7 data bits
- 1 stop bit.

Baud	B0	B1	B2	B3
9600	On	On	On	Off
19200	On	Off	Off	Off
38400	On	On	Off	Off
57600	Off	Off	On	Off
76800	On	Off	On	On

Table 1 Baud Rate DIP Switch Setting

NOTE: The baud rate on ProtoCessor for Metasys N2 is preset to 9600.

4. Load the UPS-specific Configuration Files (DIP Switches S0 – S3)

Use the S bank of DIP switches, S0 – S3, to select and load a configuration file from a group of pretested/preloaded configuration files stored in the ProtoCessor ProtoNode RER.

There are specific configuration files for: Modbus/RTU, Modbus/TCP, BACnet MS/TP, BACnet/IP, Metasys N2, SNMP, and AB EIP.

Configuration File		ProtoCessor DIP Switches			
	UPS Model / Protocol	S0	S1	S2	S3
G9000	G9000 Modbus TCP/Modbus RTU	Off	Off	Off	Off
	G9000 BACnet IP/BACnet MSTP	On	Off	Off	Off
	G9000 Metasys N2	Off	On	Off	Off
	G9000 SNMP	On	On	Off	Off
	G9000 EIP	Off	Off	On	Off
G8000	G8000 Modbus TCP/Modbus RTU	On	Off	On	Off
	G8000 BACnet IP/BACnet MSTP	Off	On	On	Off
	G8000 Metasys N2	On	On	On	Off
	G8000 SNMP	Off	Off	Off	On
	G8000 EIP	On	Off	Off	On

Table 2 Config File DIP Switch Setting

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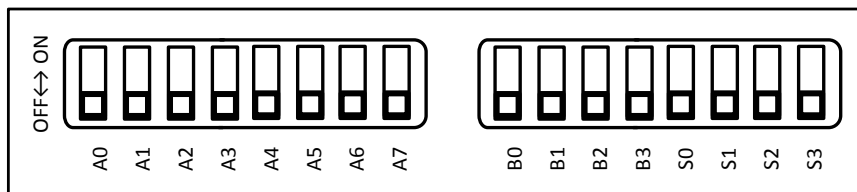
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The A Bank of DIP switches are also used to set the BACnet Device Instance. See the *ProtoCessor Startup Manual, P/N 91340*

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Table 2 Config File DIP Switch Setting