SNAP Brains MODBUS ANALOG AND DIGITAL

DATA SHEET Form 1051-080610

ΠΡΤ

Part Number	Description
SNAP-B3000-MODBUS	Analog/Digital Modbus Slave Brain

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Description

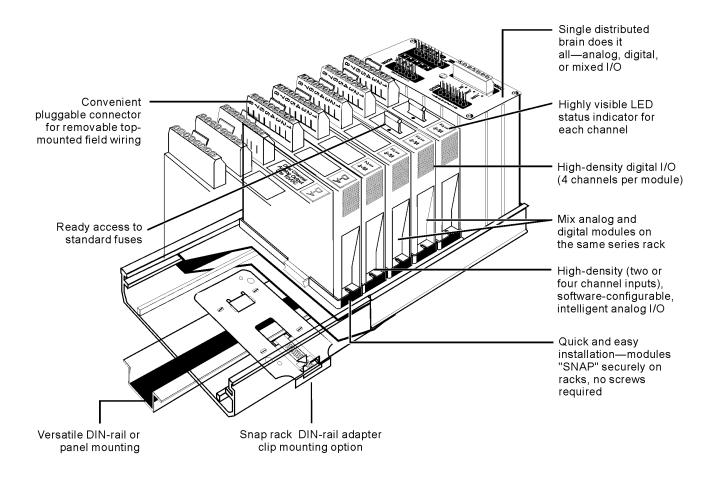
With the SNAP-B3000-Modbus brain, you can use state-ofthe-art Opto 22 industrial I/O hardware with your existing Modbuscompatible controller. The SNAP-B3000-Modbus is one of Opto 22's high-performance brains designed to remotely control a mix of both analog and digital I/O modules using the SNAP B-series I/O mounting racks. With SNAP B Series racks and any combination of compatible analog and digital SNAP I/O[®] modules, this brain provides a powerful and sophisticated I/O handling system. The onboard intelligence of the SNAP-B3000-Modbus offers many distributed control functions.

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The SNAP-B3000-MODBUS works with any Modbus master device. The SNAP-B3000-Modbus brain communicates to its master controller via RS-485 using the Modbus slave protocol in both ASCII and RTU modes. Serial communication from 300 baud to 115,200 baud is supported.

SNAP-B3000-Modbus functions include the following:

- Digital: Input latching, counting (16-bit), and on/off status
- Analog: Thermocouple linearization (16-bit fixed point for linearized values)



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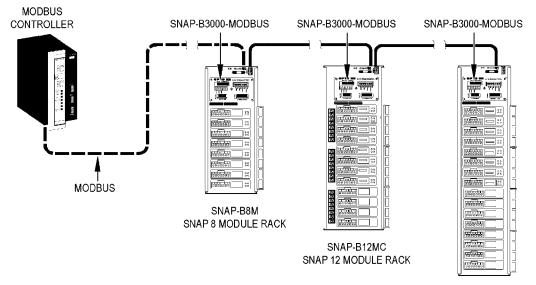
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Description (Continued)

SNAP-B3000-Modbus System Architecture

The SNAP-B3000-Modbus is connected to a SNAP B-series I/O rack, which can hold either 8, 12, or 16 SNAP modules. NOTE: Only one data link is required.



SNAP-B16M SNAP 16 MODULE RACK

Power Requirements	5.0–5.2 VDC at 1.0A max.
Operating Temperature	0 to 70 °C, 95% humidity, non-condensing
CPU	16-bit Intel 80C196 I/O processor
Communications Interface	RS-485/422, 2- or 4-wire, twisted pair(s), with shield
Data Rates	300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 76800, and 115200 baud
Range: (Multidrop Mode)	Up to 3,000 feet total length or 32 stations maximum without repeaters
Counter\Frequency Measurement	Maximum Rate: 20 kHz Minimum Pulse Width: 10 msec 16 bit
LED Indicators	RUN (Power On), RCV (Receive), and XMT (Transmit
Options: Jumper Selectable	Address, Communication baud rate, RTU/ASCII

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Dimensions—SNAP-B3000-Modbus Brain

