Modbus-to-BACnet Protocol Converter

Integrate Multiple Modbus Meters into a BACnet Network

DESCRIPTION

E8950 Modbus-to-BACnet Protocol Converter enables easy integration of a broad selection of Veris meters with Building Automation Systems via BACnet protocol. When networked, the E8950 detects supported Modbus meters and gives them a unique BACnet Device ID and full set of measurement data and configuration objects. Simply select the desired MS/TP baud rate using DIP switches or configure the IP interface using the integral web server, and the supported Veris Modbus meters are available as fully-supported BACnet devices.

APPLICATIONS

- Energy Management with Building Automation Systems
- Integrated metering of HVAC systems and chillers

FEATURES

- Enables Veris meter access via BACnet MS/TP and/or BACnet IP...compatible with standard building protocols
- Supports a broad range of Veris meters: H8035, H8036, H8163 with H8163-CB, H8238, H8436, H8437, E50C2, E51C2, E50C3*, E51C3*, E30Ax42, E30Bxxx, E30Cxxx, E31Bxxx, E31Cxxx...application flexibility
- Each E8950 can support up to 1000 BACnet measurement points (or 32 meters max., if <1000 total points)...extensive data collection
- Simultaneously supports mixed meter types (with common baud rate)...versatility in the field
- Simple to set up...automatically detects supported meters and configures BACnet objects...no manual mapping of Modbus points required
- Presents a separate device object for each meter attached...easy to program
- Can be mounted on DIN rail or wall...installation flexibility

* The logging functionality of these meters is not supported.

SPECIFICATIONS

Downstream (Device) Interfaces:
- Physical Layer: 2-wire RS-485
- Line Termination: Internal, 120 Ω
- Line Polarization: Internal
- Protocol: Modbus RTU
- Baud Rate: 9600 to 38400 (selections vary with Modbus devices used)
- Number of Devices Supported: up to 32 devices (not to exceed 1000 total BACnet data objects)

Upstream (Controller) Ethernet Interface:
- Physical Layer: 10/100 Mb Ethernet
- Protocol: BACnet IP

Upstream (Controller) Serial Interface:
- Physical Layer: 2-wire RS-485
- Protocol: BACnet MS/TP
- Baud Rate: 9600, 19200, 38400, 76800

Input Power Requirements:
- Supply Voltage: Class 2 9-30VDC or 12-24VAC
- Nominal Current Draw @ 12V: 240mA

Environmental:
- Operating Temperature Range: -40°C to 122°C (-40°F to 50°F)
- Operating Humidity Range: 5-90% RH noncondensing
- Agency Approvals: CE, TUV approved to UL916
DIMENSIONAL DRAWING

APPLICATION/WIRING EXAMPLE

ORDERING INFORMATION

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