

Modbus-to-BACnet Protocol Converter

Integrate Multiple Modbus Meters into a BACnet Network



E8950

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:

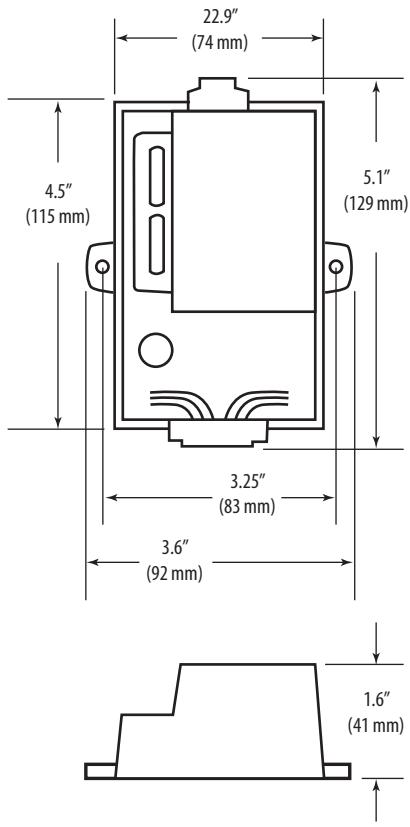
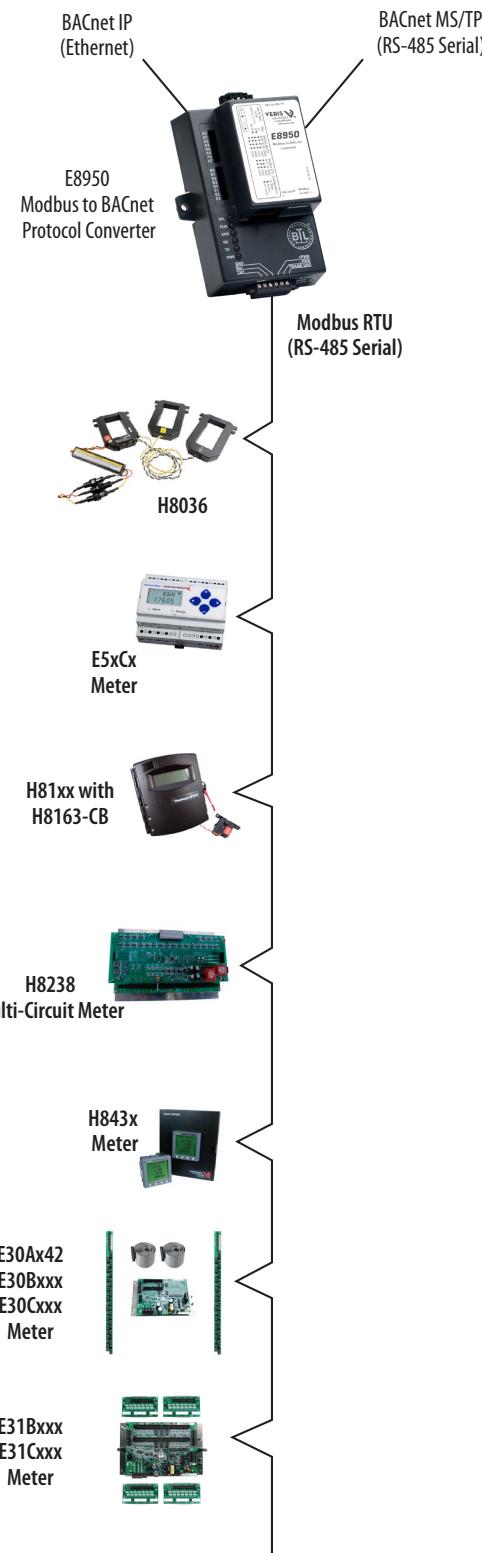
Physical Layer	2-wire RS-485
Protocol	BACnet MS/TP
Baud Rate	9600, 19200, 38400, 76800

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**

MODEL	DESCRIPTION
E8950	Modbus to BACnet Converter