

# E8951

Integrate Multiple Modbus Meters into a BACnet Network



The E8951 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 E8951 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 protocol settings using DIP switches and the integral web server, and the supported Veris Modbus meters are available as fully-supported BACnet devices.

## 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	BACnet mode - Up to 32 devices (10,000+ total BACnet data objects) SNMP mode - One 84-channel E30A/E31A or two 42-channel E30A per E8951 Modbus mode - 32 devices

### UPSTREAM (CONTROLLER) ETHERNET INTERFACE

Physical Layer	10/100 Mb Ethernet
Protocol	BACnet IP, Modbus TCP, SNMP

### UPSTREAM (CONTROLLER) SERIAL INTERFACE

Physical Layer	2-wire RS-485
Protocol	BACnet MS/TP or Modbus RTU
Baud Rate	9600, 19200, 38400, 76800
Parity	Even, Odd or None (Modbus RTU only, BACnet MS/TP is always none)

### INPUT POWER REQUIREMENTS

Supply Voltage	Class 2; 9 to 30 Vdc or 12 to 24 Vac 50/60Hz
Nominal Current Draw @ 12V	240 mA

## BACnet, Modbus, SNMP

Enables access to most Veris Modbus RTU meters via standard building automation protocols - BACnet MS/TP, BACnet IP, Modbus TCP and SNMP\*

## Simultaneous support

Supports BACnet IP and Modbus TCP access simultaneously

## Application flexibility

Supports a broad range of Veris meters: H8035, H8036, H8163 with H8163-CB, H8238, H8436, H8437, E50C2, E51C2, E50C3\*\*, E51C3\*\*, E30xxxx, E31xxxx, E34xxx and U013-0010/0011 I/O modules

## Extensive data collection

Each E8951 can support over 10,000 BACnet measurement points (32 meters max.)

## Mixed meter support

Simultaneously supports mixed meter types (with common baud rate)...versatility in the field

## Easy setup

Automatically detects supported meters and configures BACnet objects...no programming or manual mapping of Modbus points required

## APPLICATIONS

- Energy management systems
- Building automation systems
- Integrated metering of HVAC systems and chillers
- SNMP access to E30A/E31A products in data centers\*

\* Supports SNMP with a single E30A or E31A meter per E8951.  
\*\* The logging functionality of these meters is not supported.

### ENVIRONMENTAL

Operating Temp Range	-40 to 60 °C (-40 to 140 °F)
Operating Humidity Range	5 to 90% RH non-condensing; indoor use only

### WARRANTY

Limited Warranty	2 years
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### AGENCY APPROVALS

Agency Approvals	CE; TUV approved to UL916; FCC Part 15 Class A; BTL
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\*The CE mark indicates RoHS2 compliance. Please refer to the CE Declaration of Conformity for additional details.



