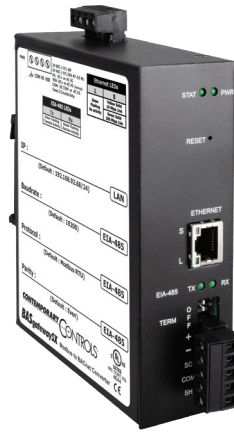


BASgatewaySX — Modbus to BACnet Gateway with SSL

BASgatewaySX

Modbus remains a popular network interface. It is commonly found on jobs such as boiler control, variable speed drives, and metering applications, but these devices lack BACnet compliance. To make Modbus devices appear as individual BACnet devices, a BASgatewaySX is used. This device has one 10/100 Mbps Modbus TCP or BACnet/IP Ethernet port and an opto-isolated Modbus EIA-485 serial port for Modbus RTU or Modbus ASCII devices.

Up to 200 Modbus serial devices represented by up to 2,000 polled points can share the BASgatewaySX's single Modbus EIA-485 port. BACnet COV notification is supported on 200 points (100 Analog and 100 Binary points). The virtual routing feature in the BASgatewaySX allows each connected Modbus device to appear as an individual BACnet-compliant device. A device profile is needed for each Modbus type device. Contemporary Controls maintains a library of freely-available device profiles available for download. If the device profile is not available, Contemporary Controls will provide it upon request. Custom Modbus device profiles can also be uploaded to the BASgatewaySX using the webpage. Using HTTPS webpages and a resident database of common Modbus device profiles, Modbus data points from Modbus Serial or Modbus TCP devices can be mapped to BACnet objects.



We have more than 200 custom pre-built device profiles available for free on our website.

Simplify Modbus Serial to Modbus TCP/IP Integration

- Step 1: Select your Modbus baud rate and parity.
- Step 2: Select your Modbus device profile from our library of more than 200 profiles.
- Step 3: Click-off the registers to be scanned in each device or accept our defaults.
- Step 4: Save.

Gateway Functionality Between...

- Modbus Serial (RTU or ASCII) and BACnet/IP
- Modbus TCP and BACnet/IP

Routing Functionality Between...

- Modbus Serial (RTU and ASCII) and Modbus TCP

Flexible Communication Ports

- 10/100 Mbps Ethernet with auto-negotiation and Auto-MDIX
- Modbus EIA-485 port can support up to 200 Modbus serial devices (up to 2,000 polled points)

- Opto-isolated serial port supports either 2-wire or 3-wire EIA-485
- Half-wave rectified power supply allows power sharing with other half-wave devices.
- EIA-485 bias and DIP switches
- Baud rates from 2.4–115.2 kbps

Convenient Installation

- 24 VAC/VDC powered
- DIN-rail and panel mounting options available

Fast & Easy Modbus Commissioning

- More than 200 field-proven, pre-built Modbus device profiles available for free download
- Custom device profiles can be uploaded to the BASgatewaySX using its web page
- If you don't see your required Modbus device profile, we will gladly create it for you

Specifications

Power Requirements 24 VAC ±10% 3 VA 47–63 Hz or 24 VDC ±10% 2 W

Operating Temperature –40°C to +75°C

Storage Temperature –40°C to 85°C

Relative Humidity 10–95%, non-condensing

Protection IP30

Communication

Compliance
Protocols supported

Data rate
Physical layer
Cable length (max)
Port connector

LEDs

Ethernet

IEEE 802.3
Modbus TCP
BACnet/IP
10 Mbps, 100 Mbps
10BASE-T, 100BASE-TX
100 m
Shielded RJ-45

L (Link)

Green = Link
Flash = activity

S (Speed)

Green = 100 Mbps
Yellow = 10 Mbps

EIA-485

Modbus V1.02
RTU Master
ASCII Master
2.4, 4.8, 9.6, 19.2, 38.4, 57.6, 115.2 kbps
EIA-485, 3-wire isolated
1200 m (or 1000 m if using 115.2 kbps)
5-pin removable terminal

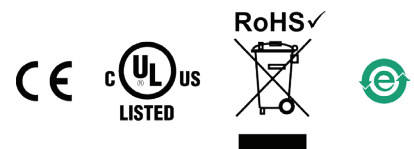
Tx

Green = activity

Rx

Green = activity

Regulatory Compliance CE Mark; CFR 47, Part 15 Class A; RoHS
UL; C22.2 No. 142-M1987



Ordering Information

Model	RoHS	Description
BASGSX-M1	✓	BASgatewaySX Modbus to BACnet Gateway DIN rail Mount with SSL
BASGSX-M1/P	✓	BASgatewaySX Modbus to BACnet Gateway Panel Mount with SSL

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