



### Overview

The EZ Gateway M-Bus to Modbus & BACnet (FS-EZX-MBUS-MOD-BAC) is an easy to use, high-performance building and industrial automation protocol gateway for integrators to interface M-Bus products to Modbus and BACnet management systems in commercial buildings, campuses and industrial facilities over Modbus RTU, Modbus TCP/IP, BACnet MS/TP or BACnet/IP protocols. M-Bus products encompass a wide range of applications such as energy, gas, heating, water, VFD drives and PLCs.

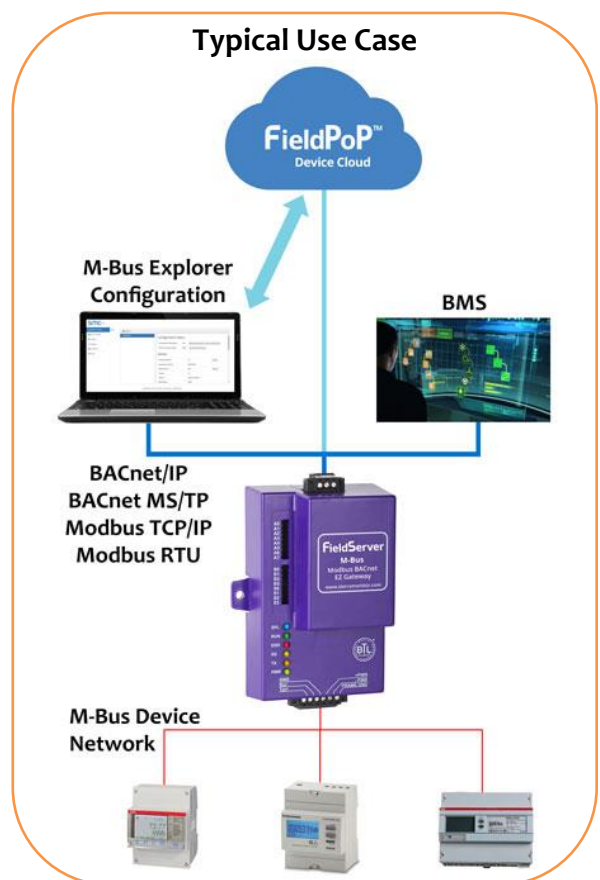
The EZ Gateway M-Bus to Modbus & BACnet combines field-hardened M-Bus, Modbus and BACnet protocol drivers with an easy to use configuration interface that, once configured, allows M-Bus devices to be presented as virtual BACnet devices which simplifies commissioning, configuration and troubleshooting. The intuitive web-based interface allows configurations to be built in the field or in the office. Additionally, the configuration profiles can be downloaded and then uploaded to other FieldServer M-Bus applications, simplifying the commissioning and integration process on repeatable applications.

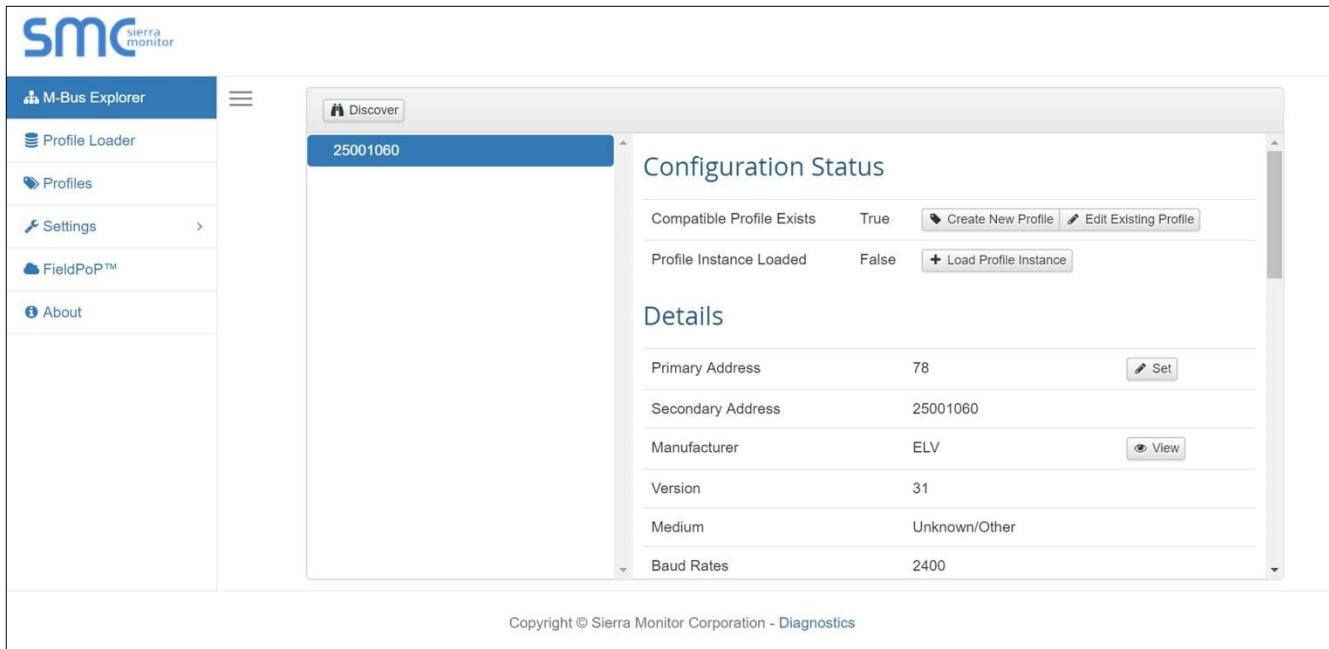
Sierra Monitor's M-Bus Explorer and Profile Loader apps allow each M-Bus device to be auto-discovered, templated and presented to quickly configure new M-Bus devices. This makes each corresponding M-Bus device into a virtual BACnet device within the EZ Gateway, thereby providing granular visibility and control over each device from within a BACnet management framework. For example, offline / online status is visible at the individual M-Bus device level.

With the EZ Gateway M-Bus to Modbus & BACnet, the integrator or contractor does not need to be a protocol expert, and can minimize configuration and commissioning time, while also reducing ongoing operating and maintenance costs.

### EZ Gateway Features and Benefits

- The M-Bus protocol can be converted to the following protocols:
  - Modbus RTU
  - Modbus TCP/IP
  - BACnet MS/TP
  - BACnet/IP
- M-Bus Interoperability:
  - M-Bus Explorer discovers all M-Bus devices in the network, shows the manufacturer details as well as available points, and offers one-click profile generation
  - Profile Loader enables efficient profile editing, exporting and importing
  - Up to 64 slave devices (max device count based on model)
  - Communication between devices with different baud rates at the same time
  - Virtual nodes allow each M-Bus device connected to a single EZ Gateway to be seen as a separate device on the BACnet network
- BACnet COV support provides fast data communication while reducing the traffic over a BACnet network
- BACnet BBMD Server support for connecting to remote BACnet networks
- Diagnostics of the devices connected to the network is available via Web Interface
- BTL certified
- **FieldPoP™**-enabled: Secure remote access for device and user management, diagnostics, monitoring, alarming and configuration from the cloud





## Configuration

The configuration interface is used to discover and configure the M-Bus to Modbus and BACnet connections. Profiles are created for each M-Bus device to be connected to the EZ Gateway. The EZ profile can be used for additional connections on this EZ Gateway or other EZ Gateways. The EZ profiles can be shared amongst anyone using the EZ Gateway.

## Specifications \*

### Environment

**Operating Temperature:** -40 to 75°C (-40 to 167°F)  
**Relative Humidity:** 5-90% RH non-condensing

### Power Requirements

9-30V DC or 12-24V AC  
**Current Draw:** @ 12V  
**1 Slave:** 580 mA  
**64 Slaves:** 980 mA

### Physical Dimensions

**H x W x D:** 4.5 x 2.9 x 1.6 in. (11.5 x 7.4 x 4.1 cm)  
**Weight:** 0.4 lbs (0.2 Kg)  
**Input Voltage:** 24V DC nominal: 10-30V DC

### Other

**Configuration/Diagnostic Utilities**  
**Capacity (part# / max slave devices):**  
 FS-EZ1-MBUS-MOD-BAC / 16 slave devices  
 FS-EZ2-MBUS-MOD-BAC / 32 slave devices  
 FS-EZ3-MBUS-MOD-BAC / 64 slave devices  
**Table, Wall or DIN Rail Mount**

### Communication

**Baud:** 2400, 4800, 9600, 19200, 38400  
**Start Bit:** 7, 8  
**Ethernet:** 10/100 BaseT MDIX

### Approvals

**TUV Approved** to UL 916, EN 60950-1, EN 50491-3  
 and CSA C22.2 standards

**BTL Certified**

**RoHS Compliant**

**GOST-R Certified**

**CE and FCC**



\* Specifications subject to change without notice

## Ordering Information

The EZ Gateway M-Bus to Modbus & BACnet is available in the following models:

- FS-EZ1-MBUS-MOD-BAC      16 slave devices
- FS-EZ2-MBUS-MOD-BAC      32 slave devices
- FS-EZ3-MBUS-MOD-BAC      64 slave devices

## Options

The Accessory Kit consists of a power supply, Ethernet cable, screwdriver, DIN rail mount and a USB flash drive with all manuals, data sheets, discovery tool and ENotes.

- FS-8915-36-QS      Accessory Kit, PSU 110-220V

BACnet® is a registered trademark of ASHRAE