Overview

The M-Bus QuickServer Gateway from Sierra Monitor easily enables data access between M-Bus networks and devices and other networks that utilize open and proprietary protocols such as BACnet, Modbus, LonWorks, Metasys N2 by JCI, SNMP and more. With over 100 protocols available in the extensive FieldServer Driver Library, no other product can connect M-Bus to more products!

Sierra Monitor is a leader in protocol gateways for the building automation industry, enabling system integrators and developers to prepare building automation and process control infrastructures for the future by breaking down protocol barriers. FieldServer is in thousands of installations with over 700 translation paths. These gateways are LonMark certified, BACnet BTL Marked, Metasys compatible and mission-critical tested.

M-Bus is a European standard for remote reading of various consumption meters such as gas meters, water meters and heat meters.

The M-Bus QuickServer Gateway is configurable to act as both a Master and a Slave M-Bus device. As an M-Bus Master the number of devices supported is limited to up to 64 devices as the FieldServer provides power to the M-Bus. The M-Bus master interrogates the slave devices as the gateway acts as a Client. It will request information from the slave devices and receive and process only the expected responses.

As an M-Bus Slave the maximum number of devices on the M-Bus is limited to the M-Bus standard of 250. The gateway will act as an M-Bus Slave and will respond only to requests from the M-Bus master devices.

SMC Cloud registration connects your devices to the cloud, allowing secure remote access for diagnostics, monitoring, alarming and configuration.

On-board diagnostics allow easy troubleshooting for both serial and Ethernet communications.

Specifications:		
	Baud Rate	300-38400 baud (Auto-band Discovery)
	Isolation	Galvanic isolation
	Hardware Interface	Phoenix connector
	Power consumption	5-15W
	M-Bus standards supported	EN 13757-2 (physical and link layer) and EN 13757-3 (application layer)

Auto Baud Discovery: The FieldServer configured as an M-Bus Master device has the ability to change each slave to a desired standard M-Bus baud rate automatically. The FieldServer configured as an M-Bus device has the ability to change its own baud to a desired standard M-Bus baud rate if requested by the Master. (Auto Baud Discovery set Slaves to any supported baud rate).

Class 1 Alarm Protocol supported: Custom vendor specific

Class 2 Data supported, with the following data types:

• Temperature	• Current	• Power	• Volume	• Mass	• Status	• Flow Rate	• Metering Medium
• Energy Tariff	• Duration	• Pressure	• Voltage	• Error	• Time	• Device ID	• Custom Defined IVFs
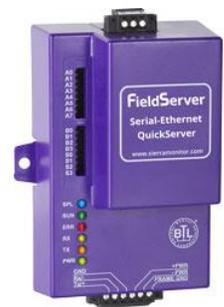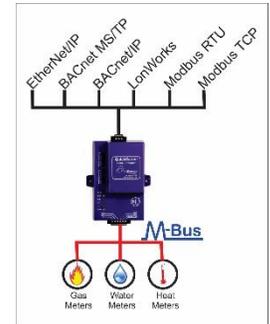
Protocols Available

Omron Fins	BACnet MS/TP	LonWorks	XML	GE-EGD
EtherNet/IP	BACnet Ethernet	Modbus RTU	DNP 3.0	Plus over 100 legacy and
Metasys N2 by JCI	BACnet/IP	Modbus TCP/IP	SNMP	proprietary protocols

For more information: www.sierramonitor.com/connect/protocol-gateway-integrators/m-bus

Ordering Information: The following part number is essential in selection of the correct product. Please build up the desired part by inserting the code for each element into the appropriate space (i.e. FS-QS-1A10-XXXX).

Model	Series	Model	R2 Port *	R1 Port	Protocols
FS-QS	1				
		↓	↓	↓	↓
		- 0 = BAS	- 1 = RS-485	- 0 = RS-485	- 4 = digit protocol code
		- 2 = Enhanced	- 2 = RS-232	- 1 = LonWorks	
		- A = M-Bus 16 device	- 3 = RS-422		
		- B = M-Bus 32 device	- 4 = KNX		
		- C = M-Bus 64 device	- 5 = M-Bus		* RS-232/RS-422 / KNX/M-Bus FS-QS-12XX only