

## Overview

The FieldServer PROFIBUS DP Slave gateway makes it easy for integrators to interface devices utilizing various building or industrial protocols to PROFIBUS DP Slave networks. As the leading manufacturer of protocol gateways in the building automation industry, MSA Safety has developed the largest driver library in the industry and the widest range of gateways available, designed to meet the needs of system integrators.

The FS-B3512-05 provides a wealth of features to enable data transfer between different devices and networks utilizing serial (RS-232 or RS-485), Ethernet, LonWorks and PROFIBUS DP Master. The multiport design allows for serial-to-serial, serial-to-Ethernet, LonWorks and PROFIBUS DP Slave interfaces. With a larger point count than any similar gateway, the FieldServer FS-B35 series provides a single device solution for your networking needs. The FieldServer is designed to meet a wide range of interface needs and it is easily configured as a master or a slave.



Configuration is easy, but if needed, configuration services are available from the FieldServer support team. The proven FieldServer support team is recognized around the world for its knowledge of the many different protocols involved in building automation.

MSA Safety continuously strives to enhance our gateways and the latest FS-B35 series includes a major software upgrade, resulting in significant enhancements in performance, including:

- 40% higher point count capability – some protocols are major memory hogs, and the result is that they can slow down performance of any gateway. With the greater memory enhancement, the FS-B35 Series can easily handle all of the drivers extremely well.
- Memory utilization monitoring – the user is provided with application memory statistics (in both kB and as a percentage of the available memory) enabling optimal matching of device models and configurations to specific applications.
- Improved stability and performance under high loads – the new software enhances the operation making it more forgiving to configuration problems with fewer crashes when capacity limits are reached.
- USB firmware update – this allows the firmware or configuration of the FieldServer to be updated from a USB flash drive whenever it is inserted, enabling users to easily update firmware in the field. This is a great time saver if you have multiple FieldServers in the field.

### FieldServers are the interoperability solution for:

- |                               |                                  |                                  |
|-------------------------------|----------------------------------|----------------------------------|
| • AC Controls                 | • Fire Alarm Panels              | • Power Managers                 |
| • Boiler Controls             | • Flowmeters                     | • Power Systems                  |
| • Building Automation Systems | • Fume Hood Controllers          | • Programmable Logic Controllers |
| • Chillers                    | • Gas Panels                     | • Temperature Controllers        |
| • Control Systems             | • Generators                     | • Variable Frequency Drives      |
| • Distributed Control Systems | • GUI (Graphical User Interface) | • Weigh Scales                   |
| • Energy Management Systems   | • IAQ Sensors                    | • .... and more!                 |

**Specifications**

**Field Connections**

**Ethernet Ports – 2**

100 BaseT RJ45 connector (auto sensing) with ESD protection

**Serial Ports – 5**

2 x RJ45 RS-232 galvanically isolated w/ ESD protection  
 2 x RS-485 serial connectors with ESD protection  
 1 x RJ45 RS-232 system port

**PROFIBUS DP – 1**

PROFIBUS DP Slave  
 Standard PROFIBUS connector  
 Auto baudrate  
 Can emulate one PROFIBUS DP Slave Station  
 244 Bytes Input  
 244 Bytes Output  
 Combined 416 Bytes

**LonWorks – 1**

FTT-10 twisted pair  
 1000 Network variable capability  
 LonWorks service pin

**Auxiliary ports – 2**

2 x USB ports

**LED Indicators**

Power, Run, System Error,  
 Configuration Error, Node Offline  
 Ethernet connection – Link OK,  
 Tx/Rx communication activity  
 RS-232/RS-485 – Tx/Rx communication activity

**Power Requirements**

24 VAC (+/-10%) or 12-30 VDC

**Environment**

**Operating temperature:** 0-60°C (32-140°F)  
**Relative humidity:** 10-90% RH non-condensing

**Other**

Configuration/Diagnostic utilities  
 Custom Configuration Services  
 System has 1000 point capability

**Physical Dimensions (WxDxH)**

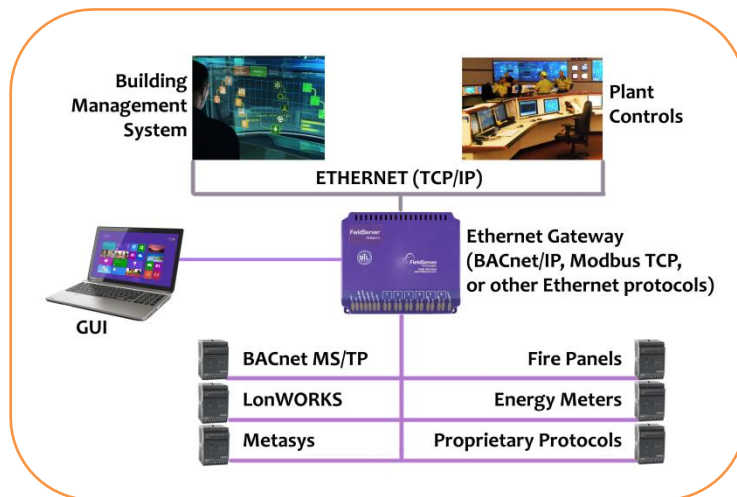
2.0 x 5.4 x 6.4 in. (5.0 x 13.7 x 16.0 cm)  
 2.5 lbs (1.5 Kg)

**Approvals**

**CE and FCC Class B & C Part 15**  
**BTL Marked and LonMark Certified**  
**CSA Certified: UL916 Standard and CSA @ 22.2**  
**Modbus and DNP 3.0 Tested**  
**RoHS3 and WEE Compliant**  
**GOST-R Certified**



\*Specifications subject to change without notice



**Drivers Available**

- Allen Bradley DF1
- BACnet/IP
- BACnet MS/TP
- Carrier
- Caterpillar M5X
- Cisco EnergyWise
- ControlNet
- DataAire
- DeviceNet
- EtherNet/IP
- GE-SRTP
- Modbus RTU
- Modbus TCP/IP
- Point Six Wireless
- PROFIBUS
- SNMP
- Veeder-Root
- .... and more!
- Fire alarm panels for:
  - ✓ EST
  - ✓ Fike
  - ✓ Gamewell-FCI
  - ✓ Hochiki
  - ✓ Mircom
  - ✓ Notifier
  - ✓ Siemens
  - ✓ SimplexGrinnell
  - ✓ VESDA