



MSA Safety FS-ROUTER-BAC2 FieldServer BACnet Router Instructions

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MSA Safety FS-ROUTER-BAC2 FieldServer BACnet Router



Overview

The FieldServer BACnet Router offers a complete BACnet Internetworking solution for BACnet/IP, BACnet Ethernet, and BACnet MS/TP networks. This is the first standalone BACnet Router that has been certified by BTL to ensure the highest standard for BACnet integration. The FieldServer BACnet Router has two RS-485 ports enabling up to 64 BACnet MS/TP devices to be connected to it without the use of additional line drivers. Relative to a single port router, the dual port router halves device response time by distributing devices over the two RS-485 ports. The FieldServer BACnet Router has an easy one-page configuration, greatly simplifying the installation process. Included in the BACnet Router the BACnet Explorer, allows the integrator to push a button and discover all the BACnet devices connected to the router, greatly simplifying the commissioning process and troubleshooting the BACnet network.

BACnet Router Features and Benefits

Multiple BACnet Routing Connections

- BACnet/IP & BACnet MS/TP
- BACnet/IP & BACnet/IP
- BACnet MS/TP & BACnet Ethernet
- BACnet/IP & BACnet Ethernet
- BACnet MS/TP & BACnet MS/TP

Ease of Use

- BACnet Explorer: discovers devices connected to the FieldServer BACnet Router.
- BACnet Broadcast Management Device (BBMD) for a connection between different subnets, up to 50 devices supported on the Broadcast Distribution Table (BDT).
- Web Based configuration with no additional software needed for configuration.
- NAT support with secondary BACnet/IP connection for routing between public and private IP networks.
- Foreign Device Registration (FDR), exposing up to 147 devices details on different subnets.
- MSA Grid 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.
- FieldSafe adds a wealth of security options, including: web configuration page authentication (self-signed certificates), robust user and password management features.

Ease of Installation

- MDIX to use any Ethernet cable for commissioning and installation.
- DHCP to automatically obtain the IP setting from the network.
- Software "ToolBox" to find and diagnose all FieldServer BACnet routers on the network.
- Wide range of input power requirements, AC or DC.

FieldServer Data Sheet – BACnet Router

The screenshot displays the SMC BACnet Router web interface. The left sidebar contains navigation links: BACnet Router, BACnet Explorer, Network Settings, Router Diagnostics, SMC Cloud™, About, and Logout. The main content area is divided into several configuration panels:

- BACnet Device:** Fields for Device Name (BACnet Router), Device Instance (1000), Device Location (-), and Device Connection (BACnet IP Wired 1).
- BACnet Ethernet:** Fields for Enable (checkbox), Network Number (3), Max Info Frames (50), and Max Master (127).
- BACnet MSTP Settings:** Fields for Max Info Frames (50) and Max Master (127).
- BACnet IP Wired 1:** Fields for Enable (checked), Network Number (1), and IP Port (47808).
- BACnet IP Wired 2:** Fields for Enable (unchecked), Network Number (2), and IP Port (47809).
- BACnet IP BBMD:** (Header visible).
- BACnet MSTP R1:** Fields for Enable (checkbox), Network Number (4), MAC Address (0), Baud Rate (38400), and Token Usage Timeout (ms) (50).
- BACnet MSTP R2:** (Header visible).

On the right side, there are **Controls** (Reload, Defaults, Save, Restart), **Status** (Router is online), and a **Log** section. The footer indicates Copyright © Sierra Monitor Corporation - Diagnostics.

Hardware Specifications

Communication

- Serial (Galvanic Isolation): 2 x RS-485
- Baud: 9600, 19200, 38400, 57600, 76800, 115200
- Ethernet: 10/100BaseT, MDIX, DHCP

Environment

- Operating Temperature:-20 to 70°C (-4 to 158°F)
- Relative Humidity:10-95% RH non-condensing
- Construction
- Dimensions: (HxWxD) 4 x 1.1 x2.7 in (10.16 x 2.8 x 6.8cm)
- Weight:0.4 lbs (0.2 Kg)

Other

- Web Configuration
- On-board diagnostics
- DIN rail mount included

Power Requirements

- Input:: 24VAC 0.125A
- 9-30VDC 0.25A@12VDC

- Max Power: 3W

Approvals

- CE and FCC/BTL Marked
- IC Canada and UKCA compliant
- UL 60950-1 and CAN/CSA C22.2
- RoHS3 and WEEE compliant

Ordering Information

The FieldServer BACnet Router is available in the following hardware configurations: I FS–Router–BAC2 (2 Serial Ports)

Options

The Accessory Kit consists of a power supply, Ethernet cable, screwdriver and a USB flash drive that includes all manuals, data sheets, notes and the discovery tool. I FS-8915-38-QS Accessory Kit, 110/220V


NEED HELP

Contact MSA sales for an easy proof of concept evaluation: SMC-insidesales@msasafety.com

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Documents / Resources

	<p>MSA Safety FS-ROUTER-BAC2 FieldServer BACnet Router [pdf] Instructions FS-ROUTER-BAC2, FieldServer BACnet Router, BACnet Router, FieldServer Router, FS-ROUTER-BAC2, Router</p>
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References

- [MSA Safety | Global](#)
- [Trademark Information | MSA Safety | United States](#)