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

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.
- 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.

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.
Hardware Specifications *

**Communication**
- Serial (Galvanic Isolation):
  - 2 x RS-485
- Baud: 9600, 19200, 34800, 57600, 76800
- Ethernet:
  - 10/100BaseT
  - MDIX
  - DHCP

**BACnet Device**
- Device Name: BACnet Router
- Device Instance: 1000

**BACnet IP Wired 1**
- Enable: 
- Network Number: 1
- IP Port: 47603

**BACnet IP Wired 2**
- Enable: 
- Network Number: 2
- IP Port: 47603

**BACnet IP WiFi**
- Enable: 
- Network Number: 6
- IP Port: 47610

**BACnet IP BBMD**

**BACnet Ethernet**
- Enable: 
- Network Number: 3

**BACnet MSTP Settings**
- Max Info Frames: 50
- Max Master: 127

**BACnet MSTP R1**
- Enable: 
- Network Number: 4

**Construction**
- Dimensions (HxWxD):
  - 4 x 1.1 x 2.7 in (10.16 x 2.8 x 6.8cm)
- Weight: 0.4 lbs (0.2 Kg)

**Power Requirements**
- Input: 24VAC 0.125A
- 9-30VDC 0.25A @12 VDC
- Max Power: 3W

**Environment**
- Operating Temperature: -20 to 70°C (-4 to 158°F)
- Relative Humidity: 10-95% RH non-condensing

**Other**
- Web configuration
- On-board diagnostics
- DIN rail mount included

**Approvals**
- CE and FCC class B & C part 15
- BTL Marked
- UL 60950-1 and CAN/CSA C22.2
- IC Canada
- RoHS and WEEE compliant

Ordering Information

The FieldServer BACnet Router is available in the following hardware configurations:
- 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.
- FS-8915-38-QS Accessory Kit, 110/220V

* Specifications subject to change without notice