BACNET ROUTER

FS-ROUTER-BAC

NEW!

FieldServer

DESCRIPTION

The **FieldServer FS-Router-BAC BACnet router** has two RS-485 ports enabling up to 64 BACnet MS/TP devices connected to it without the use of additional line drivers. The router allows response to be cut in half due to the device's two RS-485 ports. The router has an easy one page configuration, ensuring that integration is completed with ease. All BACnet connected devices can be viewed through the unique device discovery function. The list of discovered devices can be exported via Excel. This router has been certified by BTL to ensure the highest standard for BACnet integration.

BACnet Router

BACNET ROUTER SOLUTION

Multiple BACnet Routing Connections

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

FEATURES

- ***BTL Certification, Rev. 12: the first standalone device in the industry to carry the BTL mark to ensure the highest standard of BACnet integration.***
- ***Multiple BACnet routing connections: BACnet/IP, BACnet MS/TP, BACnet Ethernet***
- ***DeviceFind™: an unique discovery feature, allows the integrator to discover all the BACnet devices connected to the router with one push of a button, minimizing time required for successful commissioning***
- ***NAT support with secondary BACnet/IP connection for routing between public and private IP networks***
- ***Foreign Device Registration (FDR)***
- ***BACnet Broadcast Management Device (BBMD) for a connection between different subnets***
- ***Web based configuration***
- ***MDIX to use any Ethernet cable for commissioning and installation***
- ***DHCP to automatically obtain IP setting from the network***
- ***FieldServer Toolbox to find and diagnose routers on your network***

SPECIFICATIONS

Supply Voltage	12-24 VAC 50/60 Hz or 9-30 VDC
Supply Current	240 mA @ 12V
Communication	
Serial RS-485 x 2	Galvanic isolation Baud: 9600, 19200, 38400, 57600, 76800, 115200
Ehternet	10/100BaseT MDIX DHCP
Connections	
RS485	**6 terminals (2-ports)**
Power	3 terminals
Ethernet	RJ45 10/100 port
Setup	
Configuration	Via internal HTML page
Find Device	Discovers connected devices
BBMD	BACnet Broadcast Management Device
FDR	Foreign Device Registration details to other subnets

Operating Temperature	-40° to 167°F (-40° to 75°C)
Operating Humidity	5-90% RH non-condensing
Mounting	DIN rail, wall, table
Dimensions	4.5" x 2.9" x 1.6" (11.5 x 7.4 x 4.1 cm)
Weight	0.4 lbs (0.2 Kg)
Approvals	CE, FCC, CSA, RoHS, BTL
Warranty	2 years

WIRING

RS-485 Connection R1 Port

Connect to the 3-pin connector as shown.

The following Baud Rates are supported on the R1 Port:
110, 300, 600, 1200, 2400, 4800, 9600, 19200, 20833, 28800, 38400, 57600, 76800, 115200

10/100 Ethernet Connection Port

The Ethernet Port is used both for BACnet Ethernet and BACnet/IP communications. It is also used for configuring the Router from a Web page. Follow the steps below to connect the Router to a BACnet network and optionally to a PC for configuration purposes:

- Connect an Ethernet cable between the PC and the BACnet Router or connect the BACnet Router and the PC to the Hub/switch using a straight Cat 5 cable.
- Disable any wireless Ethernet adapters on the PC/Laptop.
- Disable firewall and virus protection software .

RS-485 Connection R2 Port

Connect to the 3 pins on the left-hand-side of the 6 pin connector as shown.

The following Baud Rates are supported on the R2 Port:
4800, 9600, 19200, 38400, 57600, 115200

Power up the Device

Apply power to the device. Ensure that the power supply used complies with the specifications.
Ensure that the cable is grounded using the "Frame GND" terminal. The BACnet Router is factory set for 9-30VDC or 12-24VAC.

NOTE: G and **SG** are the Signal Ground connections for the 3-pin connector
FG is the Frame Ground.

ORDERING INFORMATION

MODEL	DESCRIPTION
FS-Router-BAC	Two port BACnet MS/TP, IP, and Ethernet router