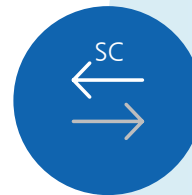
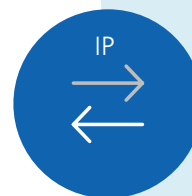


BACnet/IP and BACnet/SC Router

Data Security with Secure Connect



Router can be used as
BACnet/SC Node

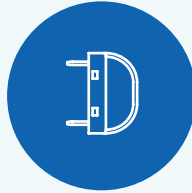


Routing between BACnet/
IP, BACnet Ethernet and
BACnet MS/TP networks

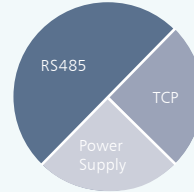
Due to the rapid growth of IT networking of technical equipment in buildings (heating/ventilation/air conditioning (HVAC), lighting, shading, access, etc.) in building automation and the connection of building management systems (BMS) to the cloud, there is a growing risk of falling victim to hacker attacks. This can not only result in damage due to access to sensitive data, but can also cause considerable damage directly to the building or the installed equipment (HVAC systems, machines). System-relevant and critical infrastructural buildings (railroad stations, airports, hospitals, etc.) can come to a standstill and companies can suffer considerable economic damage. It is, therefore, all the more important to protect networked buildings and building automation systems against attacks.



Recording and analyzing data in BACnet MS/TP networks



Fast connection of METZ CONNECT BACnet MS/TP devices via proven strapping plug technology



Galvanic 3-way isolation (RS485-Ethernet supply)



Integrated web server



Intuitive and software-independent configuration via web interface. Convenient configuration of METZ CONNECT BACnet MS/TP I/O modules



Other network components
can be found on our website
www.metz-connect.com



Product overview



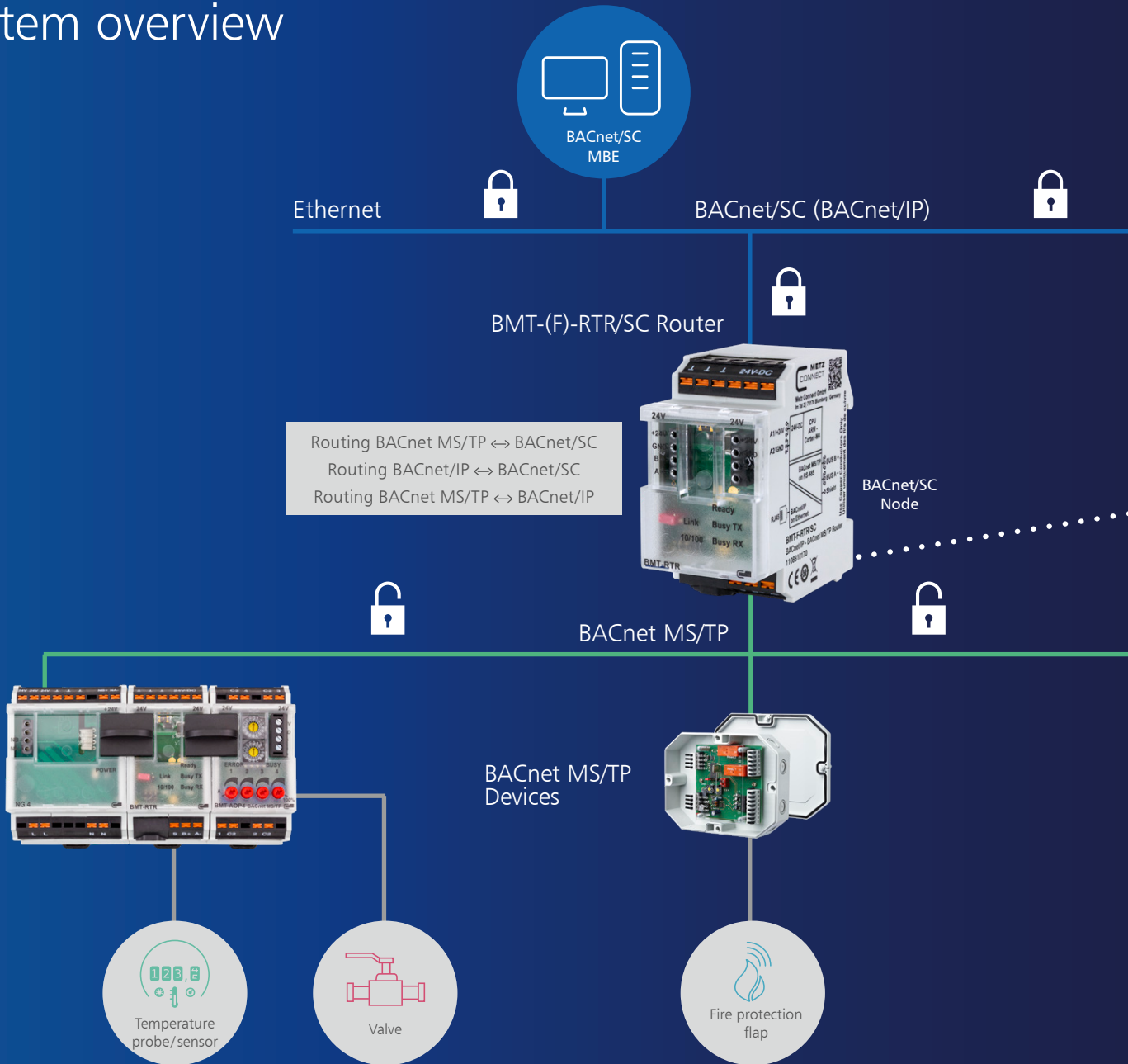
Type	BMT-RTR/SC	BMT-F-RTR/SC	BMT-RTR	BMT-F-RTR
P/N	11088101	1108810170	11088001	1108800170
BACnet/SC	x	x	-	-
BACnet/IP	x	x	x	x
BACnet MS/TP	x	x	x	x
BACnet/SC Node	x	x	-	-
Routing BACnet MS/TP ↔ BACnet/IP	x	x	x	x
Routing BACnet MS/TP ↔ BACnet/SC	x	x	-	-
Routing BACnet/IP ↔ BACnet/SC	x	x	-	-

Accessories to network components



P/N	110561	11056170	110195	1308450577-E	130B117003-E	130E405032-E
Type	NG4	NG4-F	EDS-205	RJ45 patch cable	REGplus IP20 C6A modul 180°M	C6A RJ45 field plug pro
Description	Power supply unit 24 V DC	Power supply unit 24 V DC	5-Port Switch with 10/100 BaseT(X) RJ45	Patch cord Cat.6A AWG 26 0.5 m yellow	RJ45 Termination unit for mounting to DIN rail	RJ45 plug for field assembly

System overview



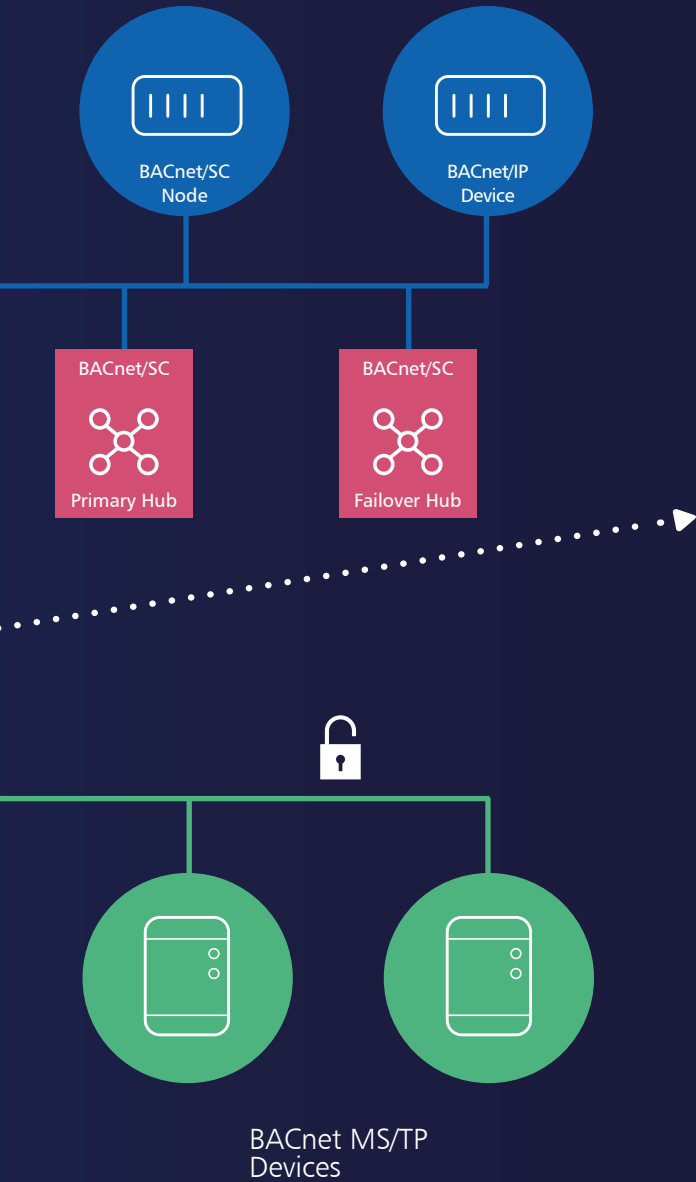
With the METZ CONNECT BACnet routers BMT-(F)-RTR, BACnet MS/TP devices are connected to a BACnet/IP network.

The BACnet/SC (Secure Connect) router BMT-(F)-RTR/SC is the right solution for secure, encrypted data transmission in critical infrastructures. BACnet/SC is the standard for secure data transmission using the BACnet protocol.

A BACnet/SC hub is used to manage the data communication of individual BACnet/SC nodes, such as the BMT-(F)-RTR/SC router.

As an additional safeguard, another so-called BACnet/SC failover hub can be used to take over if the hub fails.

This means that existing IT infrastructures and the Internet can also be used for data transfer. The BACnet routers have an integrated web server for configuring and parameterizing the device-specific functions. Particularly noteworthy is the flexibility of the BACnet/SC router BMT(F)-RTR/SC.



METZ CONNECT

We realize ideas

- [Overview](#)
- [Network](#)
- [BACnet](#)
- [Security](#)
- [Monitoring](#)
- [MS/TP Capture](#)
- [Maintenance](#)

English ▾

Overview

BACnet Device

Model	BMT-RTR/SC
Serial number	00000000
MAC Address	00:04:A3:F1:00:04
Version	2.0
Device Instance ID	421000
Device Name	BMT-RTR_00
Description	
Location	

Network

Link	100MBit Full duplex
Host Name	BMT-RTR-f10004

IPv4

IPv4	On
DHCP	On
IP Address	10.10.6.40
Subnet Mask	255.255.255.0
Standard Gateway	10.10.6.254
DNS Server	10.10.0.2

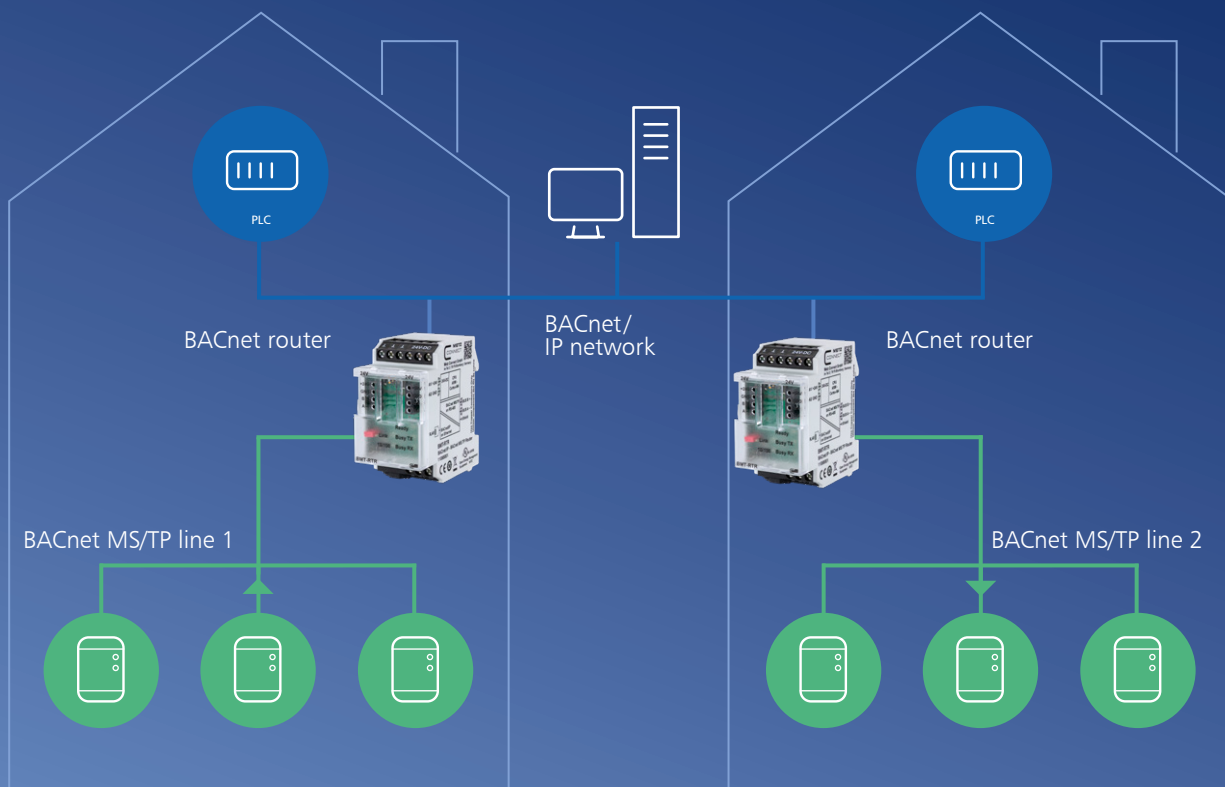
MS/TP, BACnet/IP, and BACnet/SC networks can be connected and routed simultaneously. Routing from MS/TP to BACnet/IP can be extended to BACnet/SC anytime. This means you can prepare your systems for the future today and create investment security. Secure your building automation with METZ CONNECT BACnet routers! The rapid growth of IT networking poses risks for sensitive data and the physical security of buildings.

The BMT-(F)-RTR/SC series seamlessly connects BACnet MS/TP devices to BACnet/IP and BACnet/SC networks.

Discover the innovation that protects your buildings from hacker attacks while being prepared for future developments. METZ CONNECT – your partner for secure building automation.

Application example

With the BACnet IP routers, communication between two BACnet MS/TP networks (Master – Master, Master – Slave) can be established via the IP network.



Simple configuration through web interface

- › Intuitive menu navigation and operation by smartphone, tablet or notebook through responsive design
- › Logging and analysis of IP and RS485 communication
- › Simple device search of METZ CONNECT BACnet MS/TP devices on the RS-485 bus

Your benefits

- › Connection of 32 BACnet MS/TP devices per line
- › Simple integration of BACnet MS/TP devices in a BACnet/IP network
- › Ethernet available everywhere in the building
- › No restriction on cable lengths
- › Reliable and fast communication between automation and field equipment
- › Technology and manufacturer-independent

Only for the BMT-(F)-RTR/SC variants:

- › Secure and encrypted building automation systems with BACnet/SC
- › Routing from BACnet/IP and BACnet MS/TP to BACnet/SC

BACnet MS/TP I/O fieldbus modules



BMT-DI4
BMT-F-DI4

1108841319
110884131970

4 digital input



BMT-DI10
BMT-F-DI10

1108811319
110881131970

10 digital input



BMT-SI4
BMT-F-SI4

11088913
1108891370

4 S0-input



BMT-AI8
BMT-F-AI8

11088213
1108821370

8 configurable temperature
or voltage inputs



BMT-CI4
BMT-F-CI4

1108901332
110890133270

4 current inputs 0-20 mA,
4 voltage inputs 0-10 V



BMT-DO4
BMT-F-DO4

1108861321
110886132170

4 relay outputs,
manual control level



BMT-TO4
BMT-F-TO4

11088013
1108801370

4 triac outputs,
manual control level



BMT-AOP4
BMT-F-AOP4

1108871302
110887130270

4 voltage outputs 0-10 V,
manual control level



BMT-AO4
BMT-F-AO4

1108851302
110885130270

4 voltage outputs 0-10 V



BMT-DIO4/2
BMT-F-DIO4/2

1108831326
110883132670

4 digital inputs, 2 relay outputs,
changeover contact,
manual operation level



BMT-TP
BMT-F-TP

11088813
1108881370

6 digital input,
2 two-stage
relay outputs,
manual control level



BMT-Multi I/O

P/N 11089313

- > 4 digital outputs (Photo MOS)
- > 4 digital outputs (Relais)
- > 11 Digital inputs
- > 6 universal inputs (temperature/voltage)
- > 1 analog input (current)
- > 2 analog outputs (voltage)
- > 1 SO input



BMT-DIO4/2-IP65
BACnet MS/TP

P/N 108831326IP

4 digital inputs,
2 relay outputs,
changeover contact,
manual operation level



BMT-DIO4/2-IP65
BACnet MS/TP 230 V

P/N 1108830526IP

4 digital inputs,
2 relay outputs,
changeover contact,
manual operation level



BMT-DI4-IP65
BACnet MS/TP

P/N 1108841319IP

4 digital inputs



MB-DIO 2/1-IP65 | 24 V

P/N 1108111326IP

2 digital inputs,
1 relay output,
changeover contact,
manual operation level



MB-DIO 4/2-IP65 | 24 V

P/N 1108121326IP

4 digital inputs,
2 relay outputs,
changeover contact,
manual operation level



MB-DIO 2/1-IP65 | 230 V

P/N 1108110526IP

2 digital inputs,
1 relay output,
changeover contact,
manual operation level



MB-DIO 4/2-IP65 | 230 V

P/N 1108120526IP

4 digital inputs,
2 relay outputs,
changeover contact,
manual operation level

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