Data sheet BMT-TP BACnet MS/TP

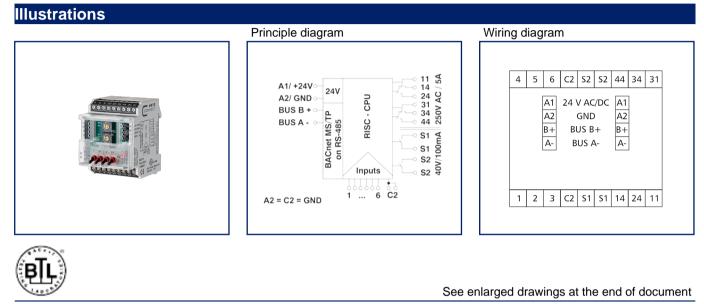


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Product specification

The BACnet MS/TP three-point module with 6 digital inputs, 2 two-level relay outputs and 2 digital outputs was developed for decentralized switching tasks. It is suitable for switching, for example, multi-level pumps and fans or louvers. In this case it is necessary to protect the relay contacts by appropriate load-dependent measures. The inputs and outputs can be switched and scanned by means of standard objects via a BACnet client. The input terminals 1 to 6 are wired with the C2 terminals on two poles to potential-free switches or contacts. The module has a manual control for the outputs. The module address and the baud rate are set by means of two address switches on the front. Suitable for decentralized mounting in serial sub-distributor.

· Connection with screw type terminal blocks





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Technical Data		
Approvals		
BIL	BACnet is a registered trademark of ASHRAE. ASHRAE does not endorse, approve or test products for compliance with ASHRAE standards. Compliance of listed products to the requirements of ASHRAE Standard 135 is the responsibility of BACnet International (BI). BTL is a registered trademark of BI.	
RS485 interface		
Protocol	BACnet MS/TP	
Address range	00 - F9	
Bus interface	RS485 two wire bus with potential equalization in bus or line topology, terminate with 120 Ohm	
Transmission parameters		
Transmission rate	min. 9600 Bit/s (Bd) - max. 115200 Bit/s (Bd)	
Transmission rate default setting	9600 Bit/s (Bd)	
Parity	None	
Stopbits	1	
Supply		
Operating voltage	24 V AC/DC +/- 10 % (SELV)	
Power consumption		
Power consumption AC (max.)	100 mA	
Power consumption DC (max.)	40 mA	
Duty cycle relative	100 %	
Inputs		
Digital inputs	6, potential-free	
Voltage input	30 V AC/DC	
High signal detection	> 4.5 V DC	
Outputs		
Digital outputs	4	
Relay output	2 x two-stage	
Switching voltage relay output (max.)	250 V AC	
Continuous current relay output	6 A / relay	
Semiconductor output	2 normally open contacts	
Switching voltage semiconductor output (max.)	40 V AC/DC	
Continuous current semiconductor output	100 mA	
Switch-on current semiconductor output (max.)	500 mA	



METZ CONNECT GmbH | Im Tal 2 | 78176 Blumberg | Germany Phone +49 7702 533-0 | Fax +49 7702 533-433 Weitere Dokumentation siehe / additional documentation see / documentation supplémentaire voir www.metz-connect.com



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Technical Data

Outputs		
Switching frequency	360 switching cycles/h	
Mechanical life	30x10 ⁶ switching cycles	
Electrical life	9x10 ⁴ switching cycles	
Insulation coil - contact set		
Nominal voltage of the power supply system	230 / 400 V AC	
Overvoltage category	III II	
Degree of pollution	2 2	
Rated test voltage	4 kV 2.5 kV	
Type of insulation	basic insulation reinforced insulation	
Housing		
Dimensions		
Dimension (W x H x D)	50 mm x 69.3 mm x 60 mm	
Dimension (W x H x D)	1.969 in. x 2.728 in. x 2.362 in.	
Total depth with switch/plug	69 mm	
Weight	126 g	
Mounting style	Standard rail TH35	
Mounting position	any	
Apposition	The maximum quantity of BACnet modules connected side-by- side is limited to 15 or to a maximum power consumption of 2 Amps (AC or DC) per connection to the power supply. For any similar block of additional modules a separate connection to the power supply is necessary., without distance	
Connection type	Screw type terminal blocks	
Indicator	green, red and yellow LED	
Terminal blocks		
Supply and bus		
Terminal block	4-pole	
Solid wire (AWG)	max. 1.5 mm ² / max. 16 AWG	
Stranded wire (AWG)	max. 1 mm ² / max. 18 AWG	
Wire diameter	max. 1.4 mm - min. 0.3 mm	
Module connection		
Wire cross section solid	0.34 mm ² - 2.5 mm ² / AWG 22-12	
Wire cross section multi	0.25 mm ² - 2.5 mm ² / AWG 22-12	
Wire cross section with wire ferrule	0.25 mm² - 2.5 mm² / AWG 22-12	





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Technical Data	
Terminal blocks	
Module connection	
Screw torque (max.)	0.5 Nm
Stripping length (min.)	8 mm
Protection circuit	Polarity reversal protection for DC operating voltage, Protection against interchanging power supply and bus
Material	
Material - Housing	Polyamid 6.6 V0
Color	gray
Material - Terminal block	Polyamid 6.6 V0
Material - Covers	Polycarbonat
REACH	compliant
REACH - substance (SVHC)	Lead / 7439-92-1
Protection category according to IEC 60529	
Protection category - housing (acc. to IEC 60529)	IP40
Protection category - terminal blocks (acc. to IEC 60529)	IP20
Temperature range	
Operating	
Temperature - Operating °C	-5 °C - 55 °C
Temperature - Operating °F	23 °F - 131 °F
Storage	
Temperature - Storage °C	-20 °C - 70 °C
Temperature - Storage °F	-4 °F - 158 °F
Classifications	
ETIM 7.0	EC001584
ETIM 8.0	EC001584





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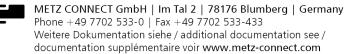
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Technical Data

Software and additional documents

Software and documentation

Further documentation is available for free download at www.metz-connect.com





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Accessories		
P/N	Designation	
110369	Terminal block Type 259	
110486	HUB DC	
110561	Power supply NG4 24 V DC	
31135104	Typ 135 RIACON 135_3.5	





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Access	ories	trom

P/N 11088001

1108800170

Designation **BMT-RTR BACnet-Router** BMT-F-RTR BACnet-Router





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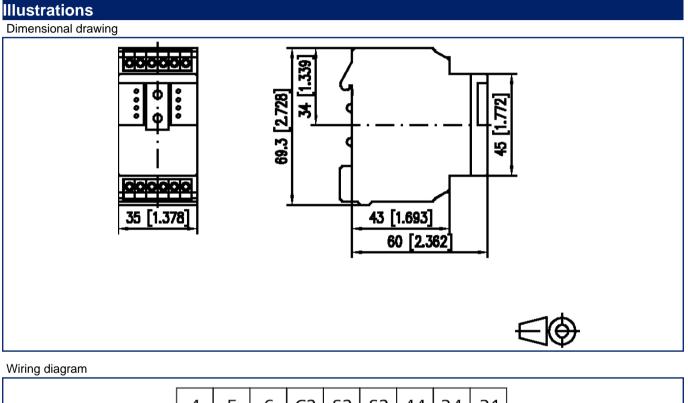


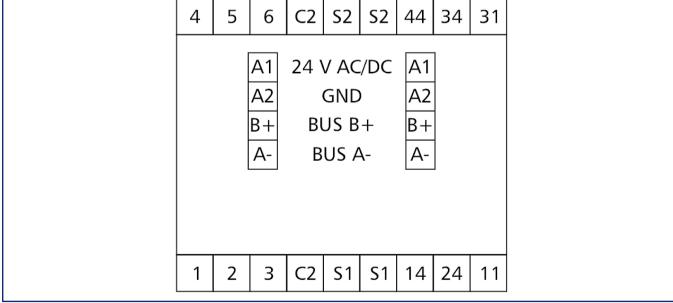
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