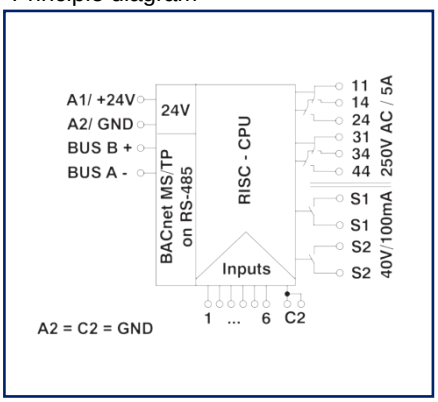
# Data sheet

## BMT-F-TP BACnet MS/TP

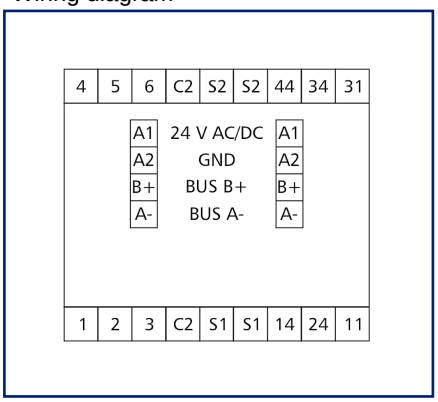
P/N
1108881370
EAN 4251394620817
2026/02/02
Version: P

## Illustrations

Principle diagram




Wiring diagram




See enlarged drawings at the end of document

## 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 spring clamp terminal blocks (push-in)

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## Technical Data

| | |
|---|---|
| **Approvals** | |
| | Open Energy Management Equipment 34TZ |
| | 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<br>terminate with 120 Ohm |
| Transmission parameters | |
| Transmission rate | min. 9600 Bit/s (Bd)<br>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 % |
| Power consumption | |
| Power consumption AC (max.) | 100 mA |
| Power consumption DC (max.) | 40 mA |
| Duty cycle relative | 100 % |
| **Inputs** | |
| Digital inputs | 6, for potential-free contacts |

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| **Outputs** | |
| Digital outputs | 4 |
| Relay output | 2 x two-stage |
| Switching voltage relay output (max.) | 250 V AC |
| Continuous current relay output | 5 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 |
| Switching frequency | 360 switching cycles/h |
| Mechanical life | $30x10^6$ switching cycles |
| Electrical life | $9x10^4$ switching cycles |
| **Isolation** | |
| 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 \| 4 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 | without distance<br>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. |
| Connection type | Spring clamp terminal blocks |
| Indicator | green, red and yellow LED |

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| | |
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| **Terminal blocks** | |
| Supply and bus | |
| Terminal block | 4-pole |
| Solid wire (AWG) | max. 1.5 mm² / max. 16 AWG |
| Stranded wire (AWG) | max. 1 mm² / max. 18 AWG |
| Wire diameter | min. 0.3 mm<br>max. 1.4 mm |
| Module connection | |
| Wire cross section solid | 0.2 mm² - 2.5 mm² / AWG 24-14 |
| Wire cross section multi | 0.25 mm² - 2.5 mm² / AWG 24-12 |
| Wire cross section with wire ferrule | 0.25 mm² - 1.5 mm² / AWG 24-16 |
| Stripping length (min.) | 8 mm |
| Protection circuit | Polarity reversal protection for DC operating voltage<br>Protection against interchanging power supply and bus |
| **Material** | |
| Color | gray |
| Material - Terminal block | Polyamid 6.6 V0 |
| Material - Covers | Polycarbonat |
| **Protection category according to IEC 60529** | |
| Protection category - housing (acc. to IEC 60529) | IP40 |
| Protection category - terminal blocks (acc. to IEC 60529) | IP20 |
| **Climatic Data** | |
| Operating | |
| Temperature - Operating °C | -5 °C - 55 °C |
| Temperature - Operating °F | 23 °F - 131 °F |
| Relative humidity | max. 85 % non-condensing |
| Storage | |
| Temperature - Storage °C | -20 °C - 70 °C |
| Temperature - Storage °F | -4 °F - 158 °F |

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## Technical Data

| Classifications | |
|---|---|
| ETIM 7.0 | EC001584 |
| ETIM 8.0 | EC001584 |
| ETIM 9.0 | EC001584 |
| ETIM 10.0 | EC001584 |

| Software and additional documents | |
|---|---|
| Software and documentation | Further documentation is available for free download at www.metz-connect.com |

### Application note

This product is a standard product of METZ CONNECT. METZ CONNECT is not aware of the specific intended use of the goods by the Customer or any customers of the Customer. The Customer guarantees that it has fully and sufficiently tested the use of the goods and any product modifications, product changes or product enhancements with regard to the specific intended use in accordance with the state of the art or in any other way. At METZ CONNECT's request, the Customer shall submit and make available meaningful evidence (e.g. test and laboratory protocols, certifications, etc.).

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## Accessories

| P/N | Designation |
|---|---|
| 110369 | Terminal block Type 259 |
| 11056170 | Power supply NG4-F 24 V DC |
| 31135104 | Typ 135 RIACON 135_3.5 |

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## Accessories from

| P/N | Designation |
|---|---|
| 11088001 | BMT-RTR BACnet-Router |
| 1108800170 | BMT-F-RTR BACnet-Router |
| 11088101 | BMT-RTR/SC BACnet/SC Router |
| 1108810170 | BMT-F-RTR/SC BACnet/SC Router |

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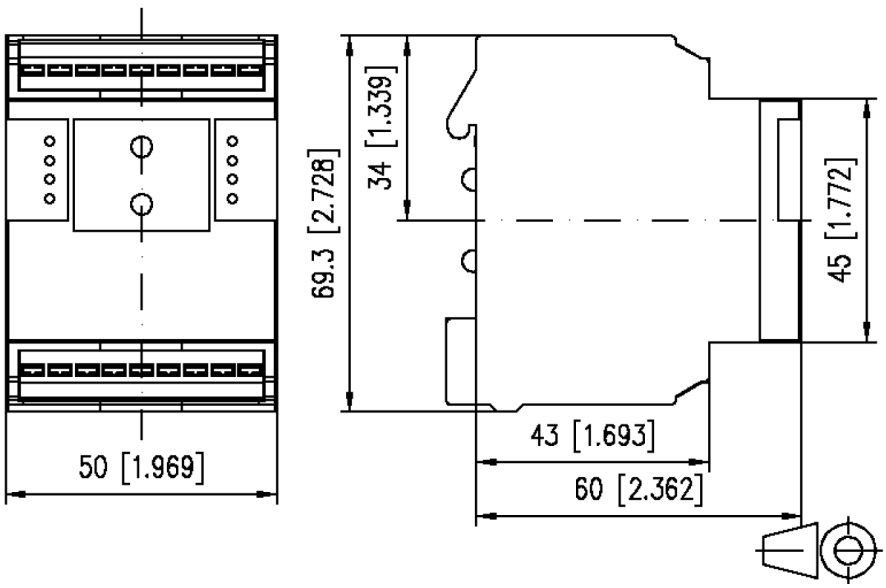
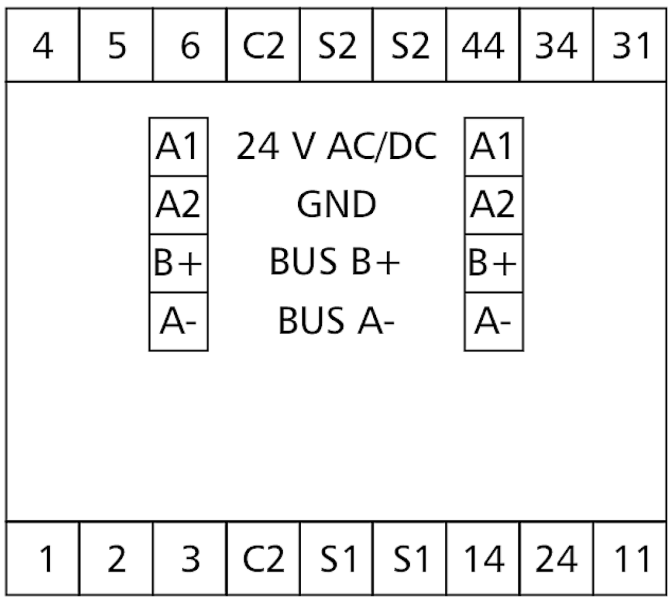
## Illustrations

Dimensional drawing




Wiring diagram

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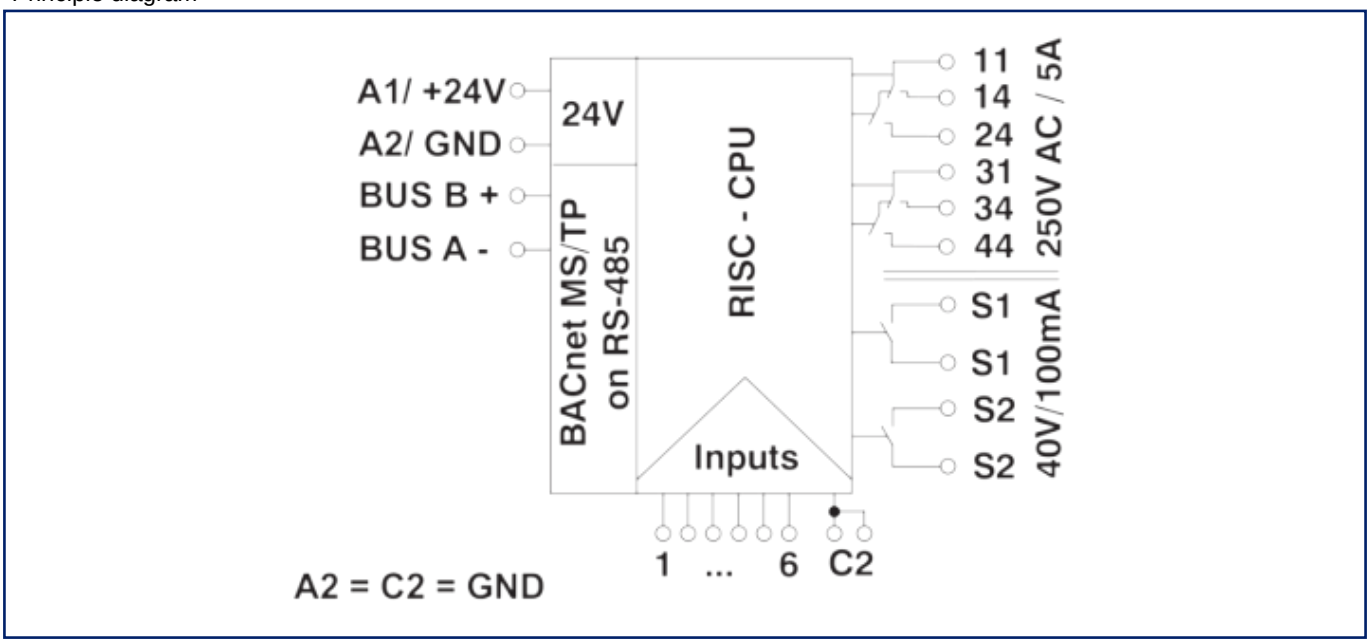


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