

Data sheet

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BMT-AI8

Part number
11088213

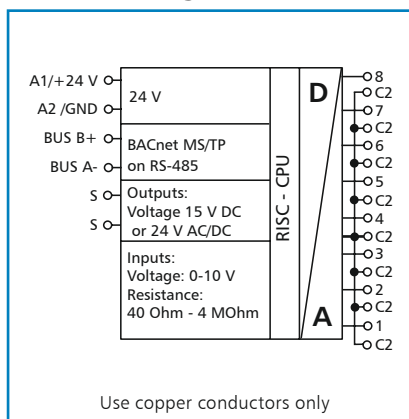
BACnet module with analog inputs

2016-11-11

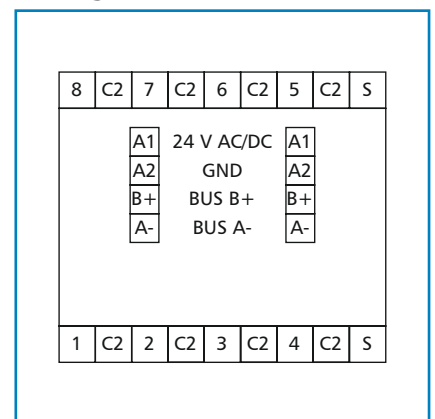
Illustrations



Principle diagram



Wiring



Product description

The BACnet MS/TP module with 8 individually configurable resistance or voltage inputs was developed for decentralized switching tasks.

It is suitable for detecting resistances and voltages of, for example, passive and active temperature sensors, electrical vent and mixing valves, valve positions, etc.

The inputs can be configured universally by means of standard objects via a BACnet client. The module is addressed and the bitrate is set by means of two address switches on the front.

Suitable for decentralized mounting on DIN TH35 rail according to IEC 60715 in electrical distribution cabinets.

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Technical data

Approvals

C-UL Certification	Open Energy Management Equipment 34TZ
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BACnet interface

Protocol	BACnet MS/TP
Address range	00 to F9
Transmission rate	9600 to 115200 Bit/s, factory setting 9600 Bit/s
Cabling	RS485 two wire bus with potential equalization in bus or line topology terminate with 120 Ohm

Supply

Operating voltage	24 V AC/DC $\pm$ 10 % (SELV)
Current consumption	65 mA (AC) / 25 mA (DC)
Relative duty cycle	100 %

Inputs

Analog inputs	8, individually configurable
Resistance range	40 Ohm to 4 MOhm
Voltage input	0 to 10 V DC
Resolution	10 mV
Error	about $\pm$ 100 mV

Housing

Dimensions WxHxD	1.969 x 2.728 x 2.362 in. (50 x 69.3 x 60 mm)
Weight	104 g
Mounting position	any
Mounting	on TH35 rail per IEC 60715
Side-by-side mounting	Without space 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.

Material

Housing	polyamide 6.6 V0
Terminal blocks	polyamide 6.6 V0
Cover	polycarbonate
Type of protection (IEC 60529)	
Housing	IP40
Terminal blocks	IP20

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Terminal blocks

Supply and bus	
Terminal block	4-pole
Solid wire	max. AWG 16 (1.5 mm ²)
Stranded wire	max. AWG 18 (1.0 mm ²)
Wire diameter	0.3 mm to max. 1.4 mm

Module connection, analog inputs

Solid wire	max. AWG 12 (4 mm ²)
Stranded wire	max. AWG 14 (2.5 mm ²)
Wire diameter	0.3 mm to max. 2.7 mm

Protective circuitry

Polarity reversal protection of operating voltage
Polarity reversal protection of supply and bus

Temperature range

Operation	23 °F to 131 °F (-5 °C to +55 °C)
Storage	-4 °F to +158 °F (-20 °C to +70 °C)

Display

Operating and bus activity	green LED
Error indication	red LED

Additional documents

Software description, mounting note, certificates	All additional documents are available for download at www.metz-connect.com
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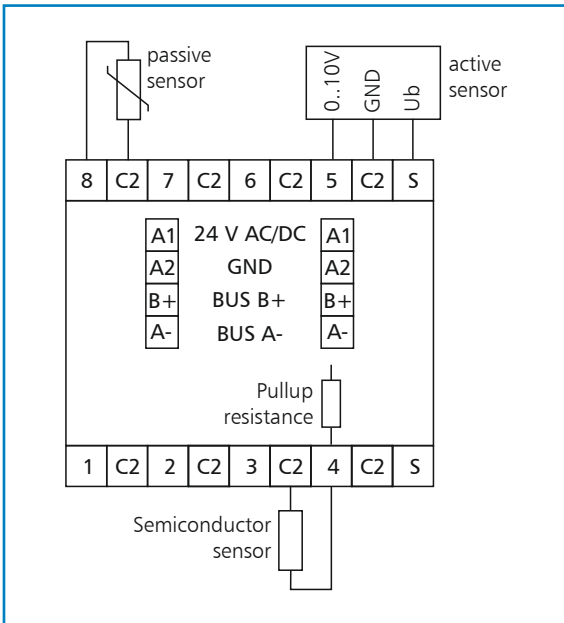
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Connection examples



Dimensional drawing

