

Data sheet

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BMT-Multi I/O BACnet MS/TP

P/N

11089313

EAN 4251394600901

2026/09/24

Version: K

Technical Data

Approvals



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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)

Supply

Operating voltage	24 V AC/DC +/- 10 % (SELV)
Power consumption	
Power consumption AC (max.)	220 mA
Power consumption DC (max.)	110 mA
Duty cycle relative	100 %

Inputs

Analog inputs	7
Current input	1
Current range	0 (4) - 20 mA DC (adjustable)
Resolution current input	15 Bit
Error current input	20 µA
Resistance / temperature / voltage input	6, individually configurable
Resistance range	40 Ohm - 4 MOhm
Resolution resistance input	15 Bit
Error resistance input < 12 kOhm	0.1 %
Error resistance input >= 12 kOhm	1 %
Temperature range (-50 °C to 150 °C)	PT100, PT500, PT1000, NI1000-TC5000, NI1000-TC6180, BALCO500, KTY81_110, KTY81_210, NTC1k8-T, NTC5k-T, NTC10k-T, NTC20k-T
Temperature range (-40 °C to 120 °C)	LM235Z sensor



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Inputs	
Voltage range	0 V - 10 V DC
Resolution voltage input	15 Bit
Error voltage input	10 mV
Digital inputs	11 x optocoupler, galvanically isolated
High signal detection	> 7 V AC/DC < 30 V AC/DC
S0 inputs acc. to DIN EN 62053-31 Class A	1
Outputs	
Analog outputs	2, potential-free
Voltage range	0 V - 10 V DC
Resolution voltage output	10 mV / digit
Continuous current voltage output	5 mA at 10 V DC
Digital outputs	8
Relay output	4 changeover contacts
Switching voltage relay output (max.)	250 V AC
Continuous current relay output	6 A / relay
Semiconductor output	4
Switching voltage semiconductor output (max.)	24 V AC/DC
Continuous current semiconductor output	100 mA
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

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Housing

Dimensions

Dimension (W x H x D)	125 mm x 93 mm x 60.81 mm
Dimension (W x H x D)	4.921 in. x 3.661 in. x 2.394 in.
Weight	385 g
Mounting style	Standard rail TH35
Mounting position	any
Apposition	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	min. 0.3 mm max. 1.4 mm

Module connection

Wire cross section solid	0.34 mm ² - 2.5 mm ² / AWG 22-12
Wire cross section multi	0.34 mm ² - 2.5 mm ² / AWG 22-12
Wire cross section with wire ferrule	0.34 mm ² - 2.5 mm ² / AWG 22-12
Wire diameter	min. 0.66 mm max. 1.78 mm
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
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Material	
Color	gray/black
Material - Terminal block	Polyamid 6.6 V0
Material - Covers	Polycarbonat
Protection category according to IEC 60529	
Protection category - housing (acc. to IEC 60529)	IP20
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	-25 °C - 70 °C
Temperature - Storage °F	-13 °F - 158 °F
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.

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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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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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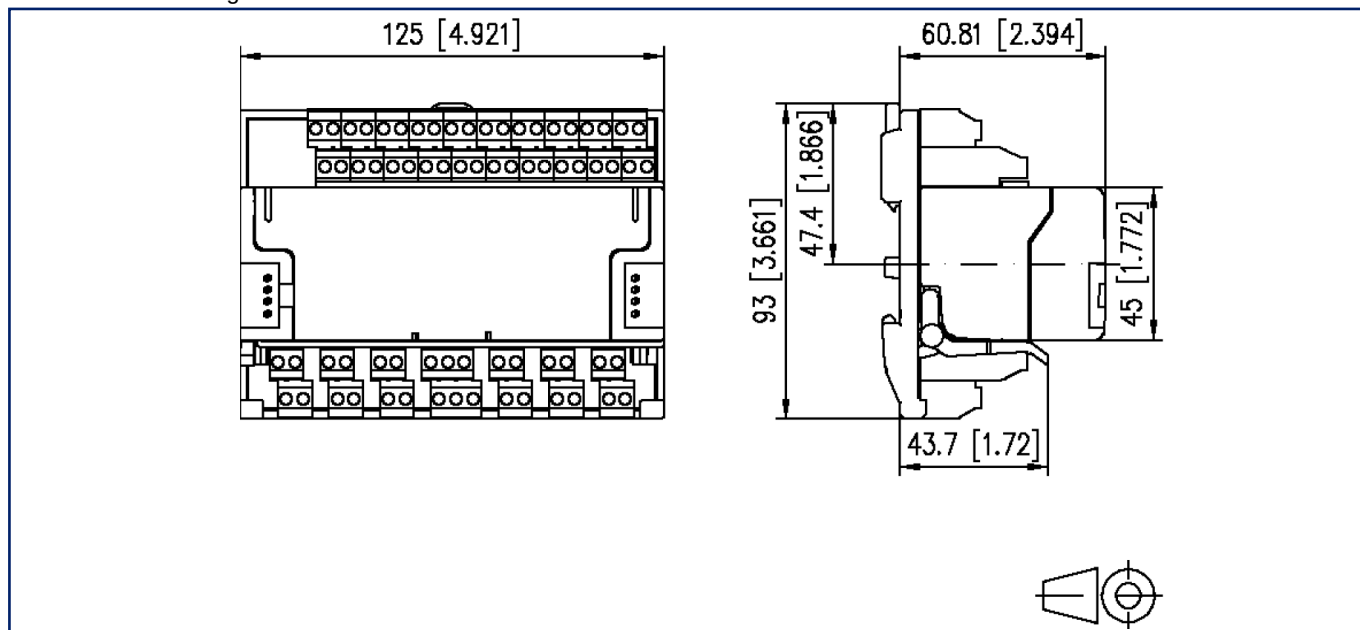
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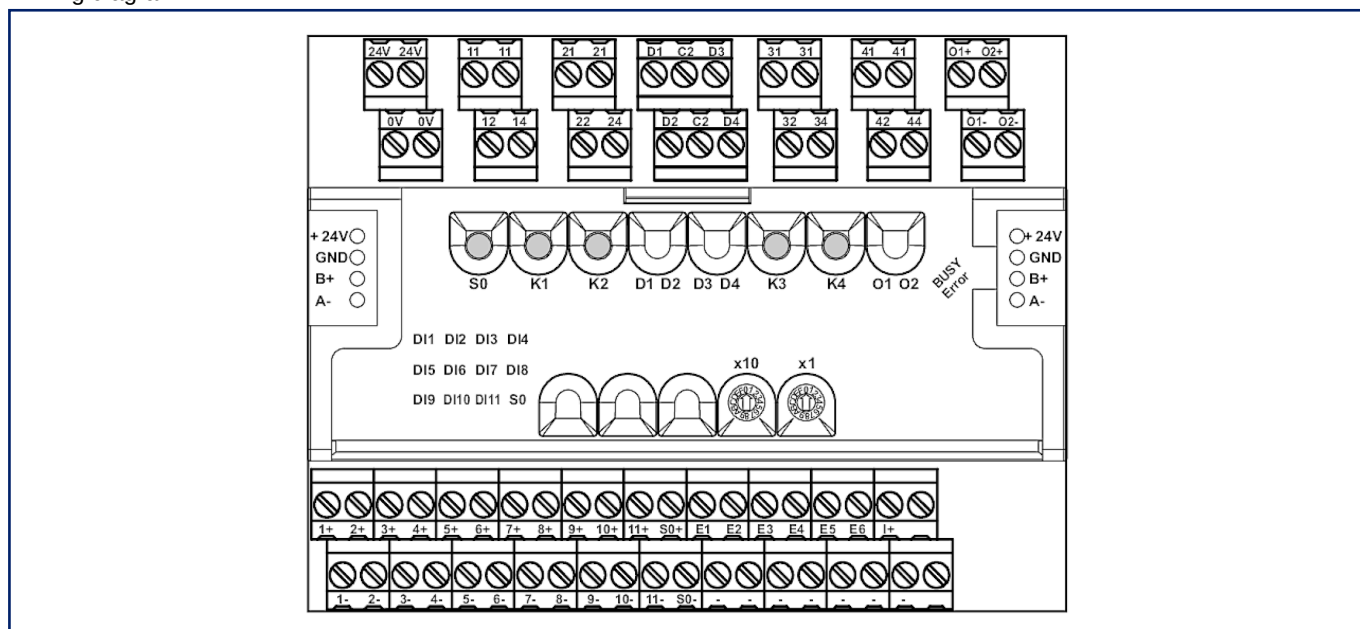
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Illustrations

Dimensional drawing



Wiring diagram



Illustrations

Principle diagram

