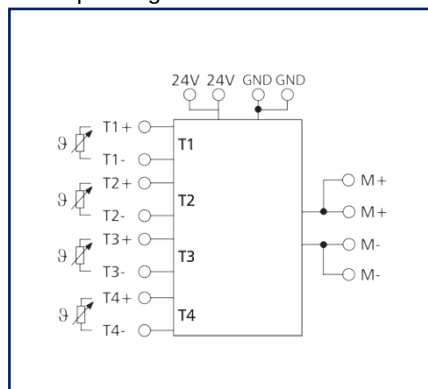


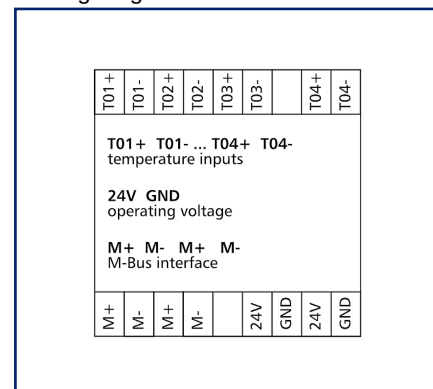
Illustrations



Principle diagram



Wiring diagram



See enlarged drawings at the end of document

Product specification

Temperature converter to connect up to 4 different resistance temperature sensors in dual cable technology with a resolution in 0.1 K. The addressing of the 4 temperature sensors is done via 4 M-Bus addresses according to M-Bus standard DIN EN-1434-3. The temperature is directly converted in the device. The temperature converter occupies 4 clear M-Bus addresses specified by the manufacturer. It is possible to set for each channel 1 of 11 stored temperature sensor characteristics with the M-Bus configuration tool (www.metz-connect.com) or to transmit the resistance value directly. The cable length compensation is done with the push-button assigned to the respective temperature input. The factory setting is: -30 °C to 130 °C / PT1000.

- Connection with screw type terminal blocks

Technical Data

Selectable characteristics

Sensor (-30 °C to 130 °C)	PT100, PT500, PT1000, Ni100, Ni1000, NTC1k8, NTC10k, NTC20k, KTY10
Sensor (0 °C to 400 °C)	PT100, PT1000
Resistance value	Index = 1 (all sensors)

M-Bus protocol

Protocol	M-Bus
Bus interface	two-wire bus
Transmission rate	300 Bit/s (Bd) - 2400 Bit/s (Bd)

Supply

Operating voltage	24 V DC +/- 10 % (SELV)
Power consumption	
Power consumption (max.)	50 mA

Inputs

S0 inputs acc. to DIN EN 62053-31 Class A	4
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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.
Weight	70 g
Mounting style	Standard rail TH35
Mounting position	any
Apposition	without distance
Connection type	Screw type terminal blocks
Indicator	green LED

Terminal blocks

Module connection	
Wire cross section solid	0,34 mm ² - 2,5mm 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 mm ² - 2.5 mm ² / AWG 22-12
Screw torque (max.)	0.5 Nm
Stripping length (min.)	8 mm

Technical Data

Material

Material - Housing	Polyamid 6.6 V0
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

Temperature range

Operating

Temperature - Operating °C	-10 °C - 50 °C
Temperature - Operating °F	14 °F - 122 °F

Storage

Temperature - Storage °C	-20 °C - 70 °C
Temperature - Storage °F	-4 °F - 158 °F

Classifications

ETIM 7.0	EC001102
ETIM 8.0	EC001102
ETIM 9.0	EC001102

Software and additional documents

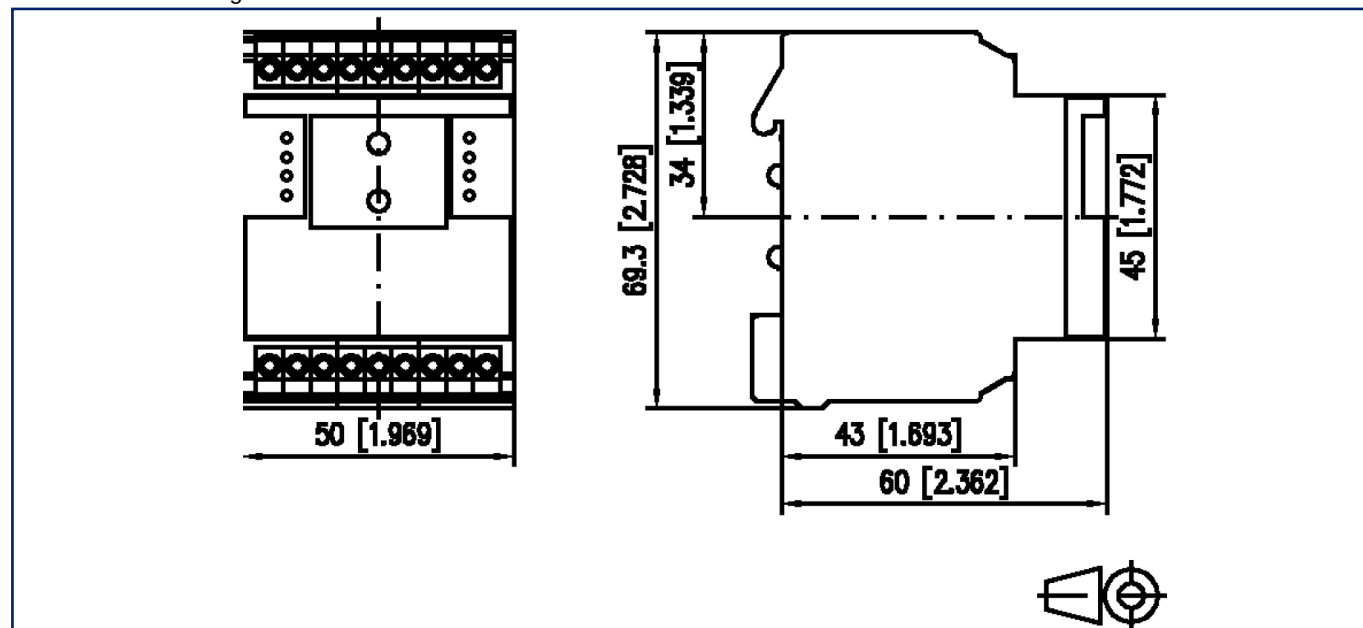
Software and documentation	Further documentation is available for free download at www.metz-connect.com
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Accessories from

P/N	Designation
110904	EWIO ₂ -BM Ethernet-IO / BACnet / Modbus
110905	EWIO ₂ Ethernet-IO
110906	EWIO ₂ -W Ethernet-IO / WLAN
110909	EWIO ₂ -W-BM Ethernet-IO / WLAN / BACnet / Modbus
110930	EWIO ₂ -M M-Bus
110931	EWIO ₂ -MW M-Bus / WLAN
110934	EWIO ₂ -MW-BM M-Bus / WLAN / BACnet / Modbus
110935	EWIO ₂ -M-BM M-Bus / BACnet / Modbus

Illustrations

Dimensional drawing



Wiring diagram

T01 +	T01 -	T02 +	T02 -	T03 +	T03 -		T04 +	T04 -
T01+ T01- ... T04+ T04- temperature inputs 24V GND operating voltage M+ M- M+ M- M-Bus interface								
M +	M -	M +	M -		24V	GND	24V	GND

Illustrations

Principle diagram

