



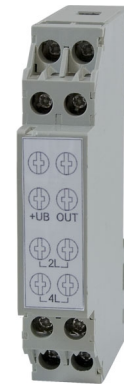
MUH/E

Pt100 temperature transducer 0-10 V / 4-20 mA for DIN rail mounting

Measuring size: temperature

Output: 0-10 V, 4-20 mA

Highlights: snap-on mounting onto cap rail



Description

The MUH/E temperature transducer for DIN rail mounting measures the temperature by the Pt100-Sensor-Input and transforms the measured value to a linear output signal 0-10 V or 4-20 mA. The rail transducer can be operated as 2-, 3- or 4-wire connection, thereby the influence of the cable length on the cable resistance can be minimized to ensure a highly accurate measurement result. The DIN rail transducer is in control cabinets or distribution boxes quickly and securely mounted by snapping onto the DIN rail.

Technical Specifications

Scales	-50...0°C, -50...+50°C, -50...+150°C, -30...+20°C, -30...+70°C, -20...+50°C, -20...+80°C, -20...+120°C, -20...+150°C, -10...+15°C, 0...+50°C, 0...+100°C, 0...+150°C, 0...+200°C, 0...+250°C, +10...+35°C
Accuracy	±0,2 K + max. ±1,5% Span
Sensor	Pt100 DIN EN 60751 Kl. B (not in scope of delivery)
Supply voltage analog 0-10 V	24 V AC/DC (±5%)
Supply voltage analog 4-20 mA	15...36 V DC, depends on liability ($U_{bmin} = 15 V + R_{load} \cdot 0,02 A$)
Current consumption at 0-10 V	typ. 10 mA
Current consumption at 4-20 mA	max. 20 mA / output
Analogue output 0-10 V	3-wire connection, min. load resistance 100 kOhm
Analogue output 4-20 mA	2-wire connection (transmitter), max. $R_{load}(Ohm) = (+U_b - 15 V) / 0,02 A$
Electrical connection	screw terminals max. 2,5 mm ²
Protection type	IP20
Protection class	III
Working range r.H.	0...98% r.H. in contaminant-free, non-condensing air
Working temperature	Electronic: -20...+70°C
Storage temperature	-20...+70°C
Installation	snap-on mounting onto cap rail
Approvals	CE, EAC, RoHS



Variants

Article Number		
Supply voltage	MR temp. preset	Output temperature
MUH/E-I00		
10...30 V DC	0...+250°C	4-20 mA
MUH/E-I01		
10...30 V DC	0...+50°C	4-20 mA
MUH/E-I02		
10...30 V DC	0...+100°C	4-20 mA
MUH/E-I03		
10...30 V DC	0...+150°C	4-20 mA
MUH/E-I04		
10...30 V DC	-50...+50°C	4-20 mA
MUH/E-I05		
10...30 V DC	-30...+70°C	4-20 mA
MUH/E-I07		
10...30 V DC	-30...+20°C	4-20 mA
MUH/E-I08		
10...30 V DC	-20...+150°C	4-20 mA
MUH/E-I10		
10...30 V DC	-20...+50°C	4-20 mA
MUH/E-I15		
10...30 V DC	0...+200°C	4-20 mA
MUH/E-U00		
24 V AC/DC	0...+250°C	0-10 V
MUH/E-U01		
24 V AC/DC	0...+50°C	0-10 V
MUH/E-U02		
24 V AC/DC	0...+100°C	0-10 V
MUH/E-U03		
24 V AC/DC	0...+150°C	0-10 V
MUH/E-U04		
24 V AC/DC	-50...+50°C	0-10 V
MUH/E-U05		
24 V AC/DC	-30...+70°C	0-10 V



Article Number		
Supply voltage	MR temp. preset	Output temperature
MUH/E-U07		
24 V AC/DC	-30...+20°C	0-10 V
MUH/E-U08		
24 V AC/DC	-20...+150°C	0-10 V
MUH/E-U10		
24 V AC/DC	-20...+50°C	0-10 V
MUH/E-U15		
24 V AC/DC	0...+200°C	0-10 V

Accessories



AF1/E
Outdoor temperature sensor



KP/E
Cable temperature sensor with PVC cable



KS/E
Cable Temperature Sensor with Silicone Cable



RF/E
Room Temperature Sensor



Dimensional Drawing

