



MUB/E

Pt100 temperature transformer head form B 0-10 V / 4-20 mA

Measuring size: temperature

Output: 0-10 V, 4-20 mA

Highlights: per circuit board (V1 / V2) 16 measurement ranges selectable by DIP-switch, 1 freely programmable measurement range



Description

The MUB/E transducer for head form B measures the temperature by the Pt100-Sensor-Input and transforms it to a linear output signal 0-10 V or 4-20 mA. There are up to 16 measurement ranges to choose from, which can be set by the DIP switch. A simple temperature adjustment of -1K,-2K,-3K is also possible. The Pt100 operation as 3- or 4-wire connection compensates the resistivity and thus guarantees a highly-accurate measurement also if you use long cable lengths.

Technical Specifications

Scales V1	-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
Scales V2	-200...0°C, -200...+100°C, -200...+200°C, -200...+400°C, -200...+600°C, -100...0°C, -100...+100°C, -100...+200°C, -100...+500°C, -80...+20°C, -50...+250°C, -50...+500°C, 0...+300°C, 0...+400°C, 0...+500°C, 0...+600°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 (Ubmin = 15 V + Rload*0,02A)
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. RLoad(Ohm) = (+Ub - 15 V) / 0,02 A
Electrical connection	screw terminals max. 1,5 mm²
Protection type	IP00
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	screw fastening



Approvals	CE, EAC, RoHS
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Variants

Article Number			
Supply voltage	Temperature	Output temperature	Version
MUB/E-I/V1			
15...36 V DC	Skalierungen V1	4-20 mA	without display
MUB/E-I/V2			
15...36 V DC	Skalierungen V2	4-20 mA	without display
MUB/E-U/V1			
24 V AC/DC	Skalierungen V1	0-10 V	without display
MUB/E-U/V2			
24 V AC/DC	Skalierungen V2	0-10 V	without display

Accessories

	AM1/E Outside temperature transducer
	AM2/E Outside temperature transducer with sleeve
	EM/E Screwable temperature transducer with brass immersion sleeve
	EM5/E Screwable temperature transducer with silicon cable



Accessories

KM/E



Duct temperature transducer

KSM/E



Cable temperature transducer with silicon cable

LM1/E



Contact temperature transducer with silicon cable and strap

LM2/E



Contact temperature transducer with strap

OM1/E



Surface temperature transducer - self-adhering

RTM1/E



Room temperature transducer



Dimensional Drawing

