



UM1/E

Flush-mounted room temperature transducer

Measuring size: temperature

Output: 0-10 V, 4-20 mA

Highlights: switch program selectable



Description

The UM1/E flush-mounted temperature transducer registers the temperature via the sensor in the housing and converts this measured value into a linear output signal 0-10 V respectively 4-20 mA. The room temperature transducer is, e.g. in offices or flats, fitted to the flush-mounted socket and is available in all common switching programmes. In the event of a deviation from the reference temperature the fine calibration can be performed directly on the device.

Technical Specifications

Measurement range temp.	0...+50°C
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 Cl. B
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	push terminals max. 1,5 mm ²
Light switch program	Busch Jäger (BJ), Gira (G), Jung (J), Berker (B), Merten (M)
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	onto in-wall junction box, diameter 55 mm
Approvals	CE, EAC, RoHS



Variants

Article Number		
MR temp. preset	Output temperature	Light switch program
UM1/E-I-G01		
0...+50°C	4-20 mA	GIRA Standard 55, pure white satin
UM1/E-U-G01		
0...+50°C	0-10 V	GIRA Standard 55, pure white satin



Dimensional Drawing

