



EM3/E

Screwable temperature transducer with connection head form B

Measuring size: temperature

Output: 0-10 V, 4-20 mA

Highlights: Pmax 40 bar, immersion sleeve with thread G1/2 inch



Description

The EM3/E screwable transducer with connection head form B registers the temperature in a range of -30...+180°C at a maximum pressure of 40 bar in gaseous and liquid media and converts this measured value into a linear output signal 0-10 V respectively 4-20 mA. Using the stainless steel immersion sleeve, with G1/2 inch thread, the temperature transducer is screwed directly into the container or the pipeline and can during service be quickly and easily replaced.

Technical Specifications

Measurement range temp.	-30...+180°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} *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. R _{load} (Ohm) = (+U _b - 15 V) / 0,02 A
Electrical connection	screw terminals max. 1,5 mm ²
Housing	terminal head form B , aluminium, colour grey
Cable gland	M20x1,5 cable gland with strain relief
Material	Protection sleeve: stainless steel VA 1.4571, Immersion sleeve: stainless steel VA 1.4571, Pmax. 40 bar
Dimensions	Protection sleeve: Ø 6 mm, Immersion sleeve: outside Ø 9 mm / inside Ø 6,5 mm, thread G1/2 inch
Protection type	IP54
Protection class	III
Working range r.H.	0...98% r.H. in contaminant-free, non-condensing air



Working temperature	Probe: -30...+180°C, Electronic: -20...+70°C
Storage temperature	-20...+70°C
Installation	immersion sleeve with G1/2 inch screw-in thread
Approvals	CE, EAC, RoHS

Variants

Article Number		
MR temp. preset	Output temperature	Installation length
EM3/E-I100		
0...+100°C	4-20 mA	100 mm
EM3/E-I200		
0...+100°C	4-20 mA	200 mm
EM3/E-I300		
0...+100°C	4-20 mA	300 mm
EM3/E-I400		
0...+100°C	4-20 mA	400 mm
EM3/E-U100		
0...+100°C	0-10 V	100 mm
EM3/E-U200		
0...+100°C	0-10 V	200 mm
EM3/E-U300		
0...+100°C	0-10 V	300 mm
EM3/E-U400		
0...+100°C	0-10 V	400 mm



Dimensional Drawing

