



AM5/E

Outside temperature transducer with EMC thread

Measuring size: temperature

Output: 0-10 V, 4-20 mA

Highlights: EMC cable gland, 16 measuring ranges per device



Description

The AM5/E outside transducer registers the temperature via the sensor inside the shock resistant, moisture proof aluminium die-cast housing and converts this measured value into a linear output signal 0-10 V respectively 4-20 mA. The aluminium housing ensures an extremely high mechanical robustness and has an EMS thread for the easy and safe EMC conform wiring. In weather dependent areas the temperature transducer is, for example, fitted to outside walls, whereby direct sunlight is to be avoided.

Technical Specifications

Measurement range temp.	-20...+70°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
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
Switching Hysteresis Relay	2K
Electrical connection	screw terminals max. 1,5 mm ²
Housing	die-cast (aluminium), colour silver grey like RAL 7001
Cable gland	M16x1,5 high-strength cable gland with strain relief and EMC grounding
Display	optional LCD-Display, to display the measured values on location (with transparent plastic cover, no EMC protection)
Dimensions	Housing: L 64 x W 58 x H 34,5 mm
Protection type	IP65
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

Variants

Article Number		
MR temp. preset	Output temperature	Version
AM5/E-I		
0...+100°C	4-20 mA	without display
AM5/E-ID		
0...+100°C	4-20 mA	with display
AM5/E-U		
0...+100°C	0-10 V	without display
AM5/E-UD		
0...+100°C	0-10 V	with display

Accessories

motrona AX350

AX350: touchMATRIX® Process Indicator with two 16 bit Analog Inputs



motrona AX020

AX020: Process Indicator for Analog Signals

