



AM2/E

Outside temperature transducer with sleeve

Measuring size: temperature

Output: 0-10 V, 4-20 mA, 2 Relay

Highlights: ext. protection sleeve with sensor for better measuring, 16 measuring ranges per device, 1 freely programmable measurement range, optional with LCD-Display, DIP-switch-technology



Description

The AM2/E outside transducer registers the temperature via the sensor inside the external sensor sleeve (faster response times) and converts this measured value into a linear output signal 0-10 V respectively 4-20 mA.

As an option the temperature transducer has two potential-free changeover contacts and a backlit display. The display content can be rotated in 90° steps using a menu and the measured value, the switching threshold set, the state of the respective relay, the MIN/MAX measured values for the selected intervals(1 h / 6 h / 12 h / 24 h) etc. can be read out.

On the display version the user can, via the menu, specify an individual temperature range.

In weather dependent areas the temperature sensor 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
Measurement range configuration	1 freely programmable measuring range via the menu input in the display (span min. 25K)
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, 30 mA peak current consumption for 50 ms at switching moment at option relay
Current consumption at 4-20 mA	max. 20 mA / output, 40 mA peak current consumption for 50 ms at switching moment at option relay
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
Alarm output	2 x potential-free change-over contact, 48 V, 1 A
Switching Hysteresis Relay	Temperature: 2K (without display), 0,5...5K adjustable (with display)
Electrical connection	screw terminals max. 1,5 mm ²
Housing	Polycarbonate PC UL 94 V0 with hinge locks, color signal white similar to RAL 9003
Cable gland	PG11 high-strength cable gland with strain relief
Display	optional LCD display with backlight on/off/auto
Material	Protection sleeve: stainless steel VA 1.4571
Dimensions	Housing: L 89 x W 80 x H 47 mm, Protection sleeve: Ø 6 x 45 mm
Protection type	IP65
Protection class	III
Working range r.H.	0...98% r.H. in contaminant-free, non-condensing air
Working temperature	-20...+70°C
Storage temperature	-20...+70°C
Installation	screw fastening
Approvals	CE, EAC, RoHS



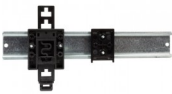
Variants

Article Number		
MR temp. preset	Output temperature	Version
AM2/E-I		
0...+100°C	4-20 mA	without display
AM2/E-I2R		
0...+100°C	4-20 mA, 2 changer	without display
AM2/E-I2RD		
0...+100°C	4-20 mA, 2 changer	with display
AM2/E-ID		
0...+100°C	4-20 mA	with display
AM2/E-U		
0...+100°C	0-10 V	without display
AM2/E-U2R		
0...+100°C	0-10 V, 2 changer	without display
AM2/E-U2RD		
0...+100°C	0-10 V, 2 changer	with display
AM2/E-UD		
0...+100°C	0-10 V	with display

Accessories

SB/E

Snap-on mounting for DIN rails



SZ/E

Accessories



motrona AX350

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





Accessories



motrona AX020

AX020: Process Indicator for Analog Signals



Dimensional Drawing

