



KTM/E

Cable temperature transducer with PFA cable, analog signal
0-10V or 4-20 mA

Measuring size: temperature

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

Highlights: 1 freely programmable measurement range



Description

The KTM/E cable transducer with PFA cable registers the temperature in gaseous and liquid media 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.

The stainless steel sleeve protects the sensor, e.g. from mechanical shocks, is rolled moisture proof with the connecting PFA cable and can, using the immersion sleeve, strap or clamping screws be quickly and easily mounted.



Technical Specifications

Measurement range temp.	-50...+250°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
Cable	2 m PFA cable (2x0,22 mm ² , max. +260°C)
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 50 mm
Protection type	Gehäuse: IP65, Fühler: IP67 (feuchtedicht rolliert)
Protection class	III
Working range r.H.	0...98% r.H. in contaminant-free, non-condensing air
Working temperature	Probe: -70...+250°C, Electronic: -20...+70°C
Storage temperature	-20...+70°C
Installation	screw fastening
Approvals	CE, EAC, RoHS



Variants

Article Number			
MR temp. preset	Output temperature	Cable	Version
KTM/E-I			
0...+100°C	4-20 mA	2 m PFA (2x0,22 mm ²)	without display
KTM/E-I2R			
0...+100°C	4-20 mA, 2 changer	2 m PFA (2x0,22 mm ²)	without display
KTM/E-I2RD			
0...+100°C	4-20 mA, 2 changer	2 m PFA (2x0,22 mm ²)	with display
KTM/E-ID			
0...+100°C	4-20 mA	2 m PFA (2x0,22 mm ²)	with display
KTM/E-U			
0...+100°C	0-10 V	2 m PFA (2x0,22 mm ²)	without display
KTM/E-U2R			
0...+100°C	0-10 V, 2 changer	2 m PFA (2x0,22 mm ²)	without display
KTM/E-U2RD			
0...+100°C	0-10 V, 2 changer	2 m PFA (2x0,22 mm ²)	with display
KTM/E-UD			
0...+100°C	0-10 V	2 m PFA (2x0,22 mm ²)	with display

Accessories

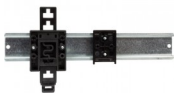
KV/E

Compression Clamp



SB/E

Snap-on mounting for DIN rails



SZ/E

Accessories





Accessories



ZT/E

Immersion sleeve



motrona AX350

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



motrona AX020

AX020: Process Indicator for Analog Signals



Dimensional Drawing

