



Temperature Transmitters



measuring
•
monitoring
•
analysing

DISCONTINUED MODEL
(shipment as long as stock lasts)

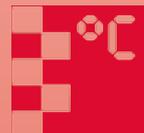
KM



- Wide supply voltage range: 7.5 ... 45 V_{DC}
- Operation, visualisation and maintenance via PC
- Fault signal on sensor break or short circuit, pre-settable to NAMUR NE 43
- 2-wire technology, 4 ... 20 mA analog output
- High accuracy

Application

- Linearised temperature measurement
- Resistance thermometers



T2

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Description

Transmitters for head mounting model KM, transform resistance values into a standard current signal 4...20 mA. Transmission is absolute interference-free over long distances. Programming of measuring ranges is via U-pro. Connection head for mounting these U-pro transmitters is according to DIN 43729 form B.

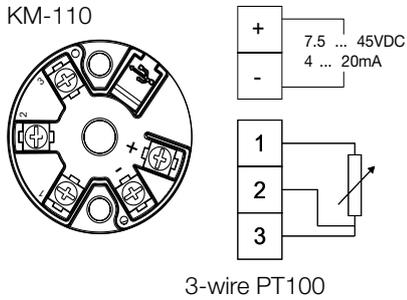
Housing: PC and potting silicone
Applied harmonised standards and normative documents: IEC60529: Degree of protection provided by housing (IP-CODE)
IEC61010: Safety requirements for electrical measurement
IEC61326: Electromagnetic compatibility (EMC requirements)
NAMUR: Standard working group for measurement and control technology in the chemical industry

Technical Details

KM-110 (only Pt100)

Supply voltage: 7.5 ... 45 V_{DC}
Input type: 1 x Pt100 3-wires (acc. to IEC 60751)
Sensor current: 0.5 mA
Range limit: -200 ... +850 °C
Min. measuring range: 10 K
Output signal: 4 ... 20 mA
Max. load: (supply - 7.5 V) / 0.022 A
Signal on alarm: under range:
linear drop to 3.8 mA
over range: linear rise to 20.5 mA
sensor open or short circuit:
3.6 mA or 22 mA
Accuracy: 0.2 K or 0.1% of span
Response time: 1 s
Test conditions: calibration temperature:
+23 °C (73.4 K) ±5 K
Long term stability: ≤0.05% / year
Switch on delay: ≤5 s
Resolution: 1 µA
Ambient temperature: -40 ... +85 °C
Storage temperature: -40 ... +100 °C
Degree of protection: enclosure IP66, terminals IP00
Relative humidity: <95% RH (non-cond.)
Shock and vibration resistance: 4 g / 2 ... 150 Hz as per IEC 60068-2-6
Electromagnetic compatibility (EMC): acc. to GB/T17626.2-1998, compliance with IEC 61326-1:2005
Dimensions: 44 mm x 18 mm
Weight: approx. 27 g

Wiring Diagram



Order Details (Example: KM-110)

Model*	Input	Output	Galvanic isolation	Programming mode**
KM-110	Pt100	4 ... 20 mA	No	U-pro

* Add suffix "V" if factory setting of desired measuring range is required

** For programming the transmitters use a standard HART® modem. Models with U-pro don't support Hand-Held HART® Communicator

Accessories (for programming the transmitters with programming modes U-pro/HART®)

Model	Description
HARTCOMM (includes configuration software KM-Soft)	HART® modem 

* Download software KM-Soft free of charge from www.kobold.com

Dimensions [mm]

