

Duct/air duct temperature measuring transducers, calibrateable, with multi-range switching and active output

Calibrateable duct temperature measuring transducer THERMASGARD® KTM 1 with eight switchable measuring ranges, continuous output, connecting head made of impact-resistant plastic, enclosure cover with quick-locking screws and plastic mounting flange, optional with or without display (displaying the actual temperature). This duct sensor is used for the detection of temperatures in gaseous media, e.g. in ventilation and air conditioning ducts. These duct temperature transmitters are factory-calibrated. Adjustment/fine adjustment by the user is possible (zero point offset is adjustable).

KTM 1

TECHNICAL DATA:

Power supply:	24 V AC/DC $\pm 10\%$ for output 0 - 10V 15-36 V DC for output 4...20 mA (depending on working resistance)
Sensor:	Pt1000, DIN EN 60751, class B
Measuring ranges:	multi-range switching with 8 switchable measuring ranges, see table (other ranges optional) with manual zero point correction ($\pm 10K$)
Output:	0 - 10V or 4...20 mA
Ambient temperature:	measuring transducer -30...+70 °C
Connection type:	2- or 3-wire connection
Protective tube:	stainless steel, 1.4571, V4A (sensor sleeve) $\varnothing = 6$ mm, lengths see table, optional perforated
Connecting head:	plastic, material polyamide, 30% glass-globe-reinforced, with quick-locking screws, colour pure white (similar RAL9010)
Dimensions:	72 x 64 x 39.4 mm
Cable gland:	M 16, including strain relief
Electrical connection:	0.14 - 1.5 mm ² via terminal screws on circuit board
Process connection:	by mounting flange, plastic (included in the scope of delivery) (galvanised steel optional, see accessories)
Humidity:	<95% r.H., non-precipitating air
Protection class:	III (according to EN 60730)
Protection type:	IP 65 (according to EN 60529)
Standards:	CE conformity, electromagnetic compatibility according to EN 61326:2006, according to EMC directive 2004/108/EC
Optional:	single-line display with illumination, cutout 37 x 15 mm (W x H), for displaying actual temperature

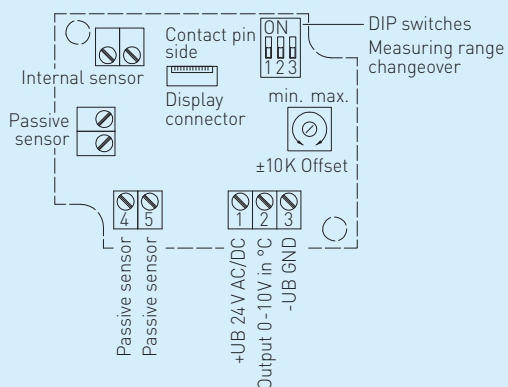


Connection*:

2-wire connection for devices with / without display (not illuminated)
3-wire connection for devices with illuminated display

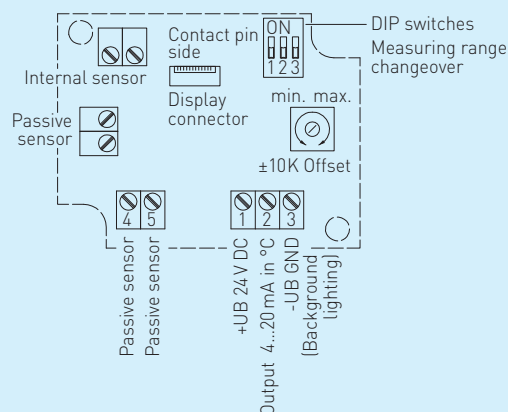
3-wire connection

KTM1-I



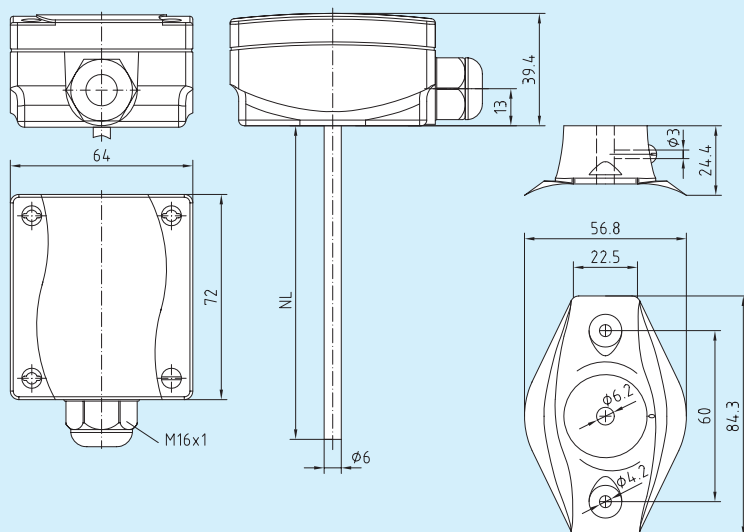
2- or 3-wire connection*

KTM1-I



Dimensional drawing

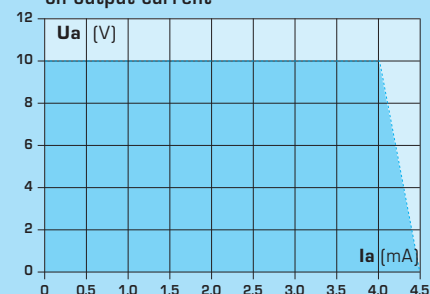
KTM 1


KTM 1
with display

KTM 1
without display

KTM 1
with display


Measuring ranges (adjustable)	DIP 1	DIP 2	DIP 3
-20 °C ... +150 °C	ON	ON	ON
-50 °C ... +50 °C	OFF	ON	ON
-20 °C ... +80 °C	ON	OFF	ON
-30 °C ... +60 °C	OFF	OFF	ON
0 °C ... +40 °C	ON	ON	OFF
0 °C ... +50 °C	OFF	ON	OFF
0 °C ... +100 °C	ON	OFF	OFF
0 °C ... +150 °C	OFF	OFF	OFF

Dependency of output voltage
on output current


THERMASGARD® KTM 1, including mounting flange

Type/WG1	Output	50 mm	100 mm	150 mm	200 mm	250 mm	300 mm
KTM 1-I	4...20 mA	•	•	•	•	•	•
KTM 1-U	0-10 V	•	•	•	•	•	•
KTM 1xx-Display	Single-line display with illumination						
Optional:	Other measuring ranges on request.						
Please specify in your order:	Type and length of protective sleeve e.g. KTM1-U, 150 mm; KTM1-I, 300 mm						