

Sleeve sensors with temperature measuring transducer, calibrateable, with multi-range switching and active output

HFTM

Calibrateable temperature measuring transducer with sleeve sensor THERMASGARD® HFTM with eight switchable measuring ranges, continuous output, optional with or without display (displaying the actual temperature), terminal box enclosure made of impact-resistant plastic and enclosure cover with quick-locking screws. The THERMASGARD® HFTM temperature transmitter with remote sensor is used for temperature detection in liquid and gaseous media, e.g. by installation inside an immersion sleeve, or as duct sensor. The sensors are factory-calibrated. Adjustment / fine adjustment by the user is possible [zero point offset is adjustable].

TECHNICAL DATA:

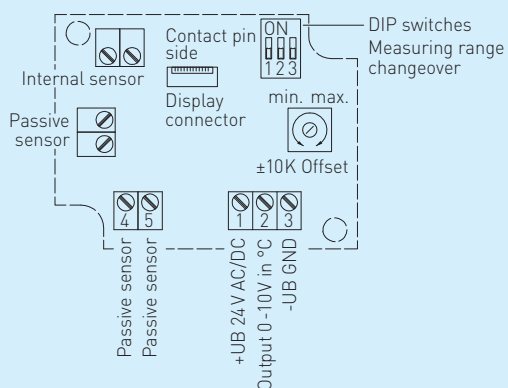
Power supply:	24 V AC/DC $\pm 10\%$ for output 0 - 10 V 15-36 V DC for output 4...20 mA (depending on working resistance)
Sensor:	Pt1000, DIN EN 60751, class B
Measuring ranges:	multi-range switching with 8 switchable measuring ranges, see table (other ranges optional) with manual zero point correction (± 10 K)
Output:	0 - 10 V or 4...20 mA
Ambient temperature:	measuring transducer -30...+70 °C
Connection type:	2- or 3-wire connection
Protective tube: (sensor sleeve)	stainless steel, 1.4571, V4A $\varnothing = 6$ mm, nominal length NL = 50 mm (other dimensions optional)
Sensor cable:	length 1.5 m, silicone, SiHF, 2x0.25 mm ² (other lengths and range limits optional, e.g. Teflon leads up to +250 °C or glass fibre with steel wire mesh up to +350 °C)
Enclosure:	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
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 37x15 mm (WxH), for displaying actual temperature



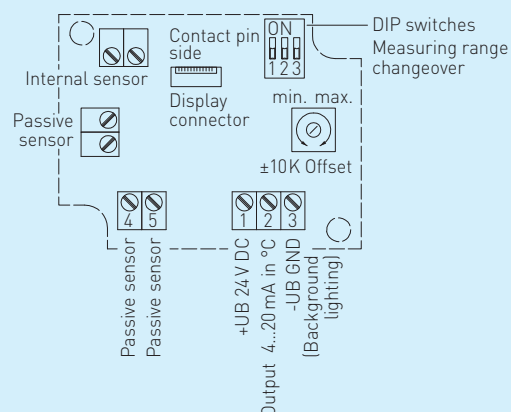
Connection*:
2-wire connection for devices
with / without display (not illuminated)
3-wire connection for devices
with illuminated display

3-wire
connection

HFTM - U

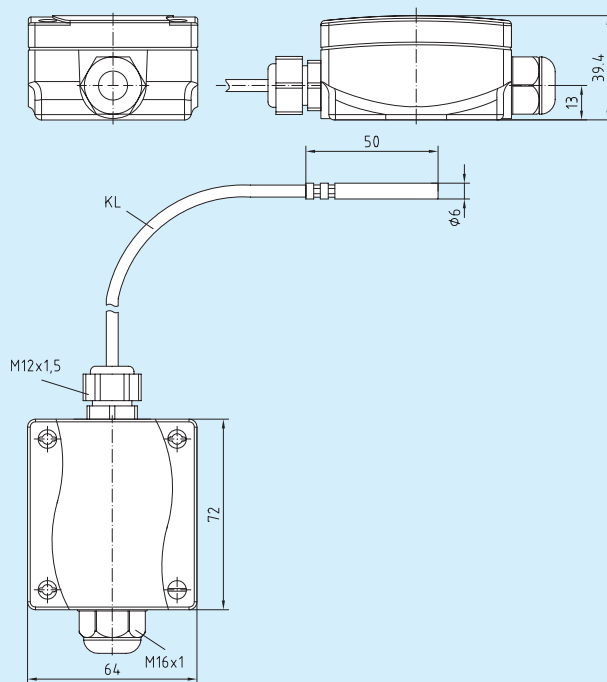
2- or 3-wire
connection**

HFTM - I

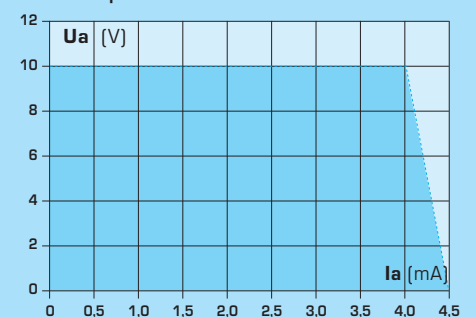


Dimensional drawing

HFTM


HFTM
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® HFTM

Type / WG1	Sensor	Output
HFTM-I	Pt 1000 (DIN EN 60751, class B)	4...20 mA
HFTM-U	Pt 1000 (DIN EN 60751, class B)	0-10 V
HFTM-xx-Display	Single-line display with illumination	
Optional:	Other measuring ranges on request.	
Extra charge:	2-wire connecting leads, silicone, per running meter	
Accessories:	TH immersion sleeves see last chapter	
Please specify in your order:	Length of protective sleeve e.g. HFTM-U, 150 mm; HFTM-I, 300 mm	