THERMASGARD® HTF 50 THERMASGARD® HTF 200

Sleeve temperature sensors/cable temperature sensors with passive output



HTF 200

(NL = 200 mm, including mounting flange) as duct temperature sensor

The sleeve sensor / cable temperature sensor THERMASGARD® HTF is used for the detection of temperatures in liquid and gaseous media, e.g. by installing it in an immersion sleeve. The cable sensor can be implemented as immersion or duct sensor, with silicone, glass fibre, or PVC leads, for two-wire, three-wire, or four-wire connection, depending on the application. The sleeve length varies, depending on request, from 30...500 mm (standard is 50 mm respectively 200 mm), the cable length is arbitrary (standard is 1.5 m).

TECHNICAL DATA:

Measuring ranges:	35+105 °C PVC, LiYY, 2x0.25mm ² -50+180 °C Silicone, SiHF, 2x0.25mm ² -50+250 °C Teflon, SiHF, 2x0.25mm ² -50+350 °C glass fibre, 2x0.25mm ² ends stripped with wire end sleeves [extended measuring range limits optional, depending on connection leads, T _{max} NTC = 150 °C, T _{max} LM235Z = 125 °C, T _{max} Ni1000 = 180 °C]
Sensors / output:	see table, passive (optional also with 2 sensors)
Connection type:	2-wire connection (4-wire connection optional)
Testing current:	ca. 1mA
Protective tube:	stainless steel, 1.4571, V4A
(sensor sleeve)	Ø=6mm, nominal length NL=50mm (HTF50) respectively 200 mm (HTF200)
	(optional also other dimensions, NL = 30500 mm)
Sensor cable:	length KL = 1.5 m
	(other lengths and diverse materials see table)
Insulating resistance:	≥ 100MΩ, at 20°C (500V DC)
Process connection:	by mounting flange, plastic
	(for HTF200 included in the scope of delivery) (galvanised steel optional, see accessories)
Protection class:	III (according to EN 60730)
Protection type:	IP 65 (according to EN 60529) rolled⁄stamped humidity-tight IP 68 (optional) sensor sleeve compound-filled



1x two-wire connection standard





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LM235Z

1x three-wire connection (optional)





THERMASGARD® HTF 200 (NL = 200 mm, KL = 1.5 m), including mounting flange

Type∕WG1 - Sensor∕Output Features		PVC Rolled⁄ Stamped	Silicone up to +180 °C	Teflon up to +250 °C	Silicone Humidity- Tight	Glass Fibre up to + 350 °C	
HTF200 Pt100		•	•	-	-	-	
HTF200 Pt1000		•	٠	-	-	-	
HTF200 Ni1000		•	٠	-	-	-	
HTF200 Ni1000 TK5000, LG-Ni1000		•	•	-	-	-	
HTF200 NTC 1.8 kOhm		•	•	-	-	-	
HTF200 KTY81-210, NTC10k, 20k, 30k, 50k, 10k Precon		•	•	-	-	-	
HTF200 LM235Z (TCR = 10 mV/K, 2.73 V at 0 °C), KP10		•	•	-	-	-	
Extra charge:	2-wire connecting leads, PVC, per running meter 2-wire connecting leads, silicone, per running meter						
Accessories:	MF-06-K Mounting flange, plastic (included in the scope of delivery) TH Immersion sleeves see last chapter						
For special orders please specify:	Type, sensor length (NL), material of leads, connection type, cable length (KL) e.g. HTF-300mm, Pt1000, PVC, 3-wire, 1.5 m; HTF-500mm, Pt100, silicone, 2-wire, 6 m						









HTF 50 (NL = 50 mm, with glass fibre cable)







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THERMASGARD® HTF 50	(NL = 50 mm, KL = 1.5 m)
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Type/WG1 - Sensor/Output

Features		Rolled⁄ Stamped	up to +180 °C	up to + 250 °C	Humidity- Tight	up to + 350 °C	
HTF 50 Pt100		•	•	•	•	•	
HTF 50 Pt1000		•	•	•	•	•	
HTF 50 Ni1000		•	•	-	•	-	
HTF 50 Ni1000 TK5000, LG-Ni1000		•	•	-	•	-	
HTF 50 NTC 1.8 kOhm		•	•	_	•	-	
HTF 50 KTY 81-210, NTC 10k, 20k, 30k, 50k, 10k Precon		•	•	-	•	-	
HTF 50 LM235Z (TCR = 10 mV/K, 2.73 V at 0 °C), KP10		•	•	-	•	-	
Extra charge:	2-wire connecting leads, PVC, per running meter 2-wire connecting leads, silicone, per running meter 2-wire connecting leads, Teflon, per running meter 2-wire connecting leads, glass fibre, per running meter						
Accessories:	MF-06-K Mounting flange, plastic TH Immersion sleeves see last chapter						
For special orders please specify:	Type, sensor length (NL), material of leads, connection type, cable length (KL) e.g. HTF-30mm, Pt1000, PVC, 3-wire, 1.5 m; HTF-40mm, Pt100, glass fibre, 2-wire, 6 m						

PVC

Silicone

Teflon

Silicone

Glass Fibre