

Outdoor temperature sensor AFH / AFHM with passive and active output

AFH ... Outdoor sensor with led-through sensor sleeve

AFHM ... Outdoor temperature sensor with measuring transducer 0–10 V or 4–20 mA with led-through sensor sleeve



Technical data		Application
Measuring range:	passive: -30 ... +100°C active: -50 ... +50°C/0 ... 50°C	For the detection of temperatures that exist outdoors or in wet room environments, cold storages and greenhouses and in the industrial field. The devices are specially protected against the influence of dust and humidity. The response characteristic of this outdoor sensor is, owing to the externally arranged sensor sleeve, excellent in respect to temperature changes. The active outdoor sensor model AFHM transduces, in a temperature-linear manner, the temperature-dependent resistance of the sensor to a current signal of 4 to 20 mA or to a voltage signal of 0 to 10 V. In the event the sensor is exposed to direct solar radiation, the use of a special protector is recommended.
Sensors:	see table	
Outputs:	0–10 V or 4–20 mA	
Tolerance classes:	PT100/PT1000 DIN EN 60751 B NI 1000 DIN EN 43760 B	
Measurement current:	max. 3 mA	
Connector type:	2-wire, 0.14 up to 2.5 mm ² (standard) max. cable length 50 m	
Dimensioned drawing:	polyamide 30 %, fibreglass reinforced	
Colour:	pure white, similar to RAL 9010	
Connecting cable:	0.14 up to 1.5 mm ²	
Degree of protection:	IP 65	
Sensor characteristics:	page 162 – 163	

Type	Item No.	Sensor	PG
AFHP 100	G9 040 160	PT 100	S
AFHP 1000	G9 040 170	PT 1000	S
AFHN 1000	G9 040 180	NI 1000	S
AFHN 1000 TK 5000	G9 040 190	NI 1000 TK 5000	S
AFHC 18	G9 040 200	NTC 1 K 8	S
AFHC 03	G9 040 210	NTC 3 K	S
AFHC 10	G9 040 220	NTC 10 K	S
AFHC 10 PRE	G9 040 230	NTC 10 K Prekon	S
AFHC 20	G9 040 240	NTC 20 K	S
AFHC 30	G9 040 250	NTC 30 K	S
AFHC 50	G9 040 260	NTC 50 K	S
AFHY 11/6	G9 040 270	KTY 11 / 6	S
AFHLM	G9 040 280	LM 235 Z	S

Outdoor temperature sensor (active)	Item No.	Output	Measuring range	PG
AFHM/0–10	G9 040 290	0–10 V	-50 ... +50°C	S
AFHM/4–20	G9 040 300	4–20 mA	-50 ... +50°C	S

Outdoor temperature sensor (active)	Item No.	Output	Measuring range	PG
AFHM/2/0–10	G9 040 451	0–10 V	0 ... +50°C	S
AFHM/2/4–20	G9 040 351	4–20 mA	0 ... +50°C	S
Other measuring ranges				S

Accessories	PG
Protector 01 (ball- / sun- / rain protection), stainless steel V4A 1.4571, G999017023,10 / S	S