

Clip-on temperature sensor ALF with passive and active output

ALF ... Clip-on temperature sensor

ALFM ... Clip-on temperature sensor with measuring transducer 0 – 10 V or 4 – 20 mA



Technical data		Application
Measuring range:	passive: -30 ... +105°C active: 0 ... 100°C	For the detection of temperatures at conduits, pipes or heaters.
Sensors, passive:	see table	
Tolerance classes, passive:	PT100/PT1000 DIN EN 60751 B NI1000 DIN EN 43760 B	The active clip-on sensor model ALFM transduces, in a temperature-linear manner, the temperature-dependent resistance of the sensor to a voltage signal of 0 to 10 V or to a current signal of 4 to 20 mA. The measuring transducer is delivered tuned to the measuring range 0 ... 100°C.
Measurement current, passive:	max. 3 mA	
Connector type, passive:	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	
Degree of protection:	IP 65	To improve the transmission of the actually sensed temperatures, it is recommended to apply heat conduction paste between the tube or pipe and the clip-on sensor.
Fixing:	cable straps, 450 mm long, removable, temperature-proof up to 105°C	
Sensor characteristics, passive:	page 162 – 163	
Outputs, active:	0 – 10 V or 4 – 20 mA	
Connecting cable, active:	0.14 – 1.5 mm ²	

Type	Item No.	Sensor	PG
ALFP 100	G9050010	PT 100	S
ALFP 1000	G9050020	PT 1000	S
ALFN 1000	G9050030	NI 1000	S
ALFN 1000 TK 5000	G9050040	NI 1000 TK 5000	S
ALFC 18	G9050050	NTC 1 K 8	S
ALFC 03	G9050060	NTC 3 K	S
ALFC 10	G9050070	NTC 10 K	S
ALFC 10 PRE	G9050080	NTC 10 K Prekon	S
ALFC 20	G9050090	NTC 20 K	S
ALFC 30	G9050100	NTC 30 K	S
ALFC 50	G9050110	NTC 50 K	S
ALFY 11/6	G9050120	KTY 11 / 6	S
ALFLM	G9050130	LM 235 Z	S
ALF-0	G9050270	"0" (NTC 2K 25)	S
ALF-2	G9050160	"2" (NTC 47K)	S
ALF-3	G9050180	"3" (NTC 8K)	S
ALF-4	G9050190	"4" (NTC 10K)	S
ALF-5	G9050200	"5" (NTC 50K)	S
ALF-51	G9050210	"51" (PTC 1K)	S

Options	PG
3-wire connection	S
4-wire connection	S

Clip-on temperature sensor, active	Item No.	Output	Measuring range	PG
ALFM/0-10	G9050140	0-10 V	0...100°C	S
ALFM/4-20	G9050150	4-20 mA	0...100°C	S
Other measuring ranges				S

Accessory	PG
Heat conduction paste (2 ml), WP-01, G9990180, see page 160	S