

Mean temperature sensor MWF with passive and active output

MWF ... Mean temperature sensor with passive output

MWFM ... Mean temperature sensor with measuring transducer 0 – 10 V or 4 – 20 mA



Technical data		Application
Measuring range:		For the detection of the main temperature prevailing in gasiform media that flow in air ducts or of the main temperature in air flows produced by coil heating systems or drying ovens. The device enables to measure the temperature over the entire length of the sensor line.
passive:	-30 ... +100°C	
active:	-20 ... +80°C	
Passive sensor:	see table	The mean temperature model MWFM 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 -20 ... +80°C.
Tolerance classes, passive:	PT100/PT1000 DIN EN 60751 B Ni1000 DIN EN 43760 B	
Sensor length (rod):	0.4 m, 3 m, 6 m, copper tube Ø 4 mm	
Measurement current passive:	max. 3 mA	
Connector type, passive:	2-wire, 0.14–2.5 mm ²	
Dimensioned drawing:	polyamide 30% fibreglass reinforced, max. 100°C	
Colour:	pure white, similar to RAL 9010	
Degree of protection:	IP 65	
Laying:	smallest bending radius 30 mm, on installation clips	
Sensor characteristic, passive:	page 162 – 163	
Active outputs:	0–10 V or 4–20 mA	
Connecting cable, active:	0.14–1.5 mm ²	

Type	Item No.	Sensor length	Sensor	PG
MWFP 1000/3-Cu	G9120210	3 m	PT 1000	S
MWFP 1000/6-Cu	G9120220	6 m	PT 1000	S
MWFN 1000/6-Cu	G9120230	6 m	Ni 1000	S
MWFN 1000 TK 5000/0,4-Cu	G9120240	0.4 m	Ni 1000 TK 5000	S
MWFN 1000 TK 5000/3-Cu	G9120250	3 m	Ni 1000 TK 5000	S
MWFN 1000 TK 5000/6-Cu	G9120260	6 m	Ni 1000 TK 5000	S

Mean temperature sensor with measuring transducer 0–10 V

Type	Item No.	Sensor length	Output	Measuring range	PG
MWFM/0–10/0,4-Cu	G9120270	0.4 m	0–10 V	-20...+80°C	S
MWFM/0–10/6-Cu	G9120280	6 m	0–10 V	-20...+80°C	S

Mean temperature sensor with measuring transducer 4–20 mA

Type	Item No.	Sensor length	Output	Measuring range	PG
MWFM/4–20/6-Cu	G9120200	6 m	4–20 mA	-20...+80°C	S

Accessories

	Item No.		PG
JZ-05/6M	C 1809474	1 set of installation clips (six metal pieces)	K
MF	G9990160	installation flange	S

Optional

MWF also available with a length of 12 m