



TPF1/E

Radiation Pendulum Temperature Sensor

Measuring size: temperature

Output: passive sensor

Highlights: aluminium globe



Description

The TPF1/E room pendulum sensor measures the thermal radiation in the range of -30 up to +75°C e.g. in high rooms and is with all current sensors available. The temperature probe can be mounted as freely suspended pendulum in rooms whereby in high rooms a exact measurement result of the windchill factor temperature is warranted.

Technical Specifications

Measurement range temp.	-30...+75°C
Sensor	Pt100, Pt500, Pt1000, Ni1000, KTY, NTC, LM235Z (other on request)
Circuit type	2-wire connection
Measurement current	approx. 1 mA
Electrical connection	stripped ends with ferrules
Cable	PVC cable (2x0,25 mm ² , max. +105°C) with core cable ends in different lengths
Leakage resistance	> 100 MOhm, at +20°C (500 V DC)
Material	Globe: aluminium (black)
Dimensions	Globe: Ø 70 mm
Protection type	IP54
Storage temperature	-20...+70°C
Installation	screw fastening
Approvals	CE, EAC, RoHS



Variants

Article Number	
Sensor	Cable
TPF1/E-10	
Pt100 (DIN EN 60751 Cl. B)	2 m PVC (2x0,25 mm ²)
TPF1/E-20	
Pt1000 (DIN EN 60751 Cl. B)	2 m PVC (2x0,25 mm ²)
TPF1/E-30	
Ni1000 (whirl-sintered)	2 m PVC (2x0,25 mm ²)
TPF1/E-40	
Ni1000TK5000 (whirl-sintered)	2 m PVC (2x0,25 mm ²)
TPF1/E-50	
NTC1,8k (±1%)	2 m PVC (2x0,25 mm ²)
TPF1/E-60	
LM235Z (±1%)	2 m PVC (2x0,25 mm ²)
TPF1/E-70	
NTC20k (±1%)	2 m PVC (2x0,25 mm ²)
TPF1/E-80	
NTC10k (±1%)	2 m PVC (2x0,25 mm ²)

Accessories



DT/G
Digital display



MUD/E
Pt100 temperature transformer 0-10 V / 4-20 mA with double-PG housing



Dimensional Drawing

