



TF5/E

Immersion Temperature Sensor with Silicone Cable

Measuring size: temperature

Output: passive sensor

Highlights: moisture sealed rolled, Protection sleeve stainless steel



Description

The TF5/E immersion sensor with silicone cable measures the temperature in the range of -50 up to +180°C in gasiform as well as liquid medium and is with all current sensors available. The stainless steel sleeve protects the sensor e.g. against mechanical impacts and is with the cable splash water resistant connected. With an optional mounting flange, immersion sleeve or compression clamp the temperature sensor can be mounted directly e.g. on ducts or pipes and replaced quickly and easily in case of service.

Technical Specifications

Measurement range temp.	-50...+180°C
Sensor	Pt100, Pt1000 (other on request)
Circuit type	2-, 3- or 4-wire connection
Measurement current	approx. 1 mA
Electrical connection	stripped ends with ferrules
Cable	silicone cable (max. +180°C) with core cable ends
Leakage resistance	> 100 MOhm, at +20°C (500 V DC)
Installation length	50-400 mm
Material	Protection sleeve: stainless steel VA 1.4571
Dimensions	Protection sleeve: Ø 6 mm
Protection type	IP67 (moisture sealed rolled)
Storage temperature	-20...+70°C
Installation	immersion sleeve, mounting flange, compression fitting (not in scope of delivery)
Approvals	CE, EAC, RoHS



Variants

Article Number		
Sensor	Cable	Dimensions
TF5/E-10/6.0/050/2-2		
Pt100 (DIN EN 60751 Cl. B)	2 m silicone (2x0,22 mm ²)	Ø 6 x 50 mm
TF5/E-10/6.0/050/2-4		
Pt100 (DIN EN 60751 Cl. B)	2 m silicone (4x0,22 mm ²)	Ø 6 x 50 mm
TF5/E-10/6.0/050/5-2		
Pt100 (DIN EN 60751 Cl. B)	5 m silicone (2x0,22 mm ²)	Ø 6 x 50 mm
TF5/E-10/6.0/050/5-4		
Pt100 (DIN EN 60751 Cl. B)	5 m silicone (4x0,22 mm ²)	Ø 6 x 50 mm
TF5/E-10/6.0/100/2-2		
Pt100 (DIN EN 60751 Cl. B)	2 m silicone (2x0,22 mm ²)	Ø 6 x 100 mm
TF5/E-10/6.0/100/2-4		
Pt100 (DIN EN 60751 Cl. B)	2 m silicone (4x0,22 mm ²)	Ø 6 x 100 mm
TF5/E-10/6.0/100/5-2		
Pt100 (DIN EN 60751 Cl. B)	5 m silicone (2x0,22 mm ²)	Ø 6 x 100 mm
TF5/E-10/6.0/100/5-4		
Pt100 (DIN EN 60751 Cl. B)	5 m silicone (4x0,22 mm ²)	Ø 6 x 100 mm
TF5/E-10/6.0/200/2-2		
Pt100 (DIN EN 60751 Cl. B)	2 m silicone (2x0,22 mm ²)	Ø 6 x 200 mm
TF5/E-10/6.0/200/2-4		
Pt100 (DIN EN 60751 Cl. B)	2 m silicone (4x0,22 mm ²)	Ø 6 x 200 mm
TF5/E-10/6.0/200/5-2		
Pt100 (DIN EN 60751 Cl. B)	5 m silicone (2x0,22 mm ²)	Ø 6 x 200 mm
TF5/E-10/6.0/200/5-4		
Pt100 (DIN EN 60751 Cl. B)	5 m silicone (4x0,22 mm ²)	Ø 6 x 200 mm
TF5/E-10/6.0/300/2-2		
Pt100 (DIN EN 60751 Cl. B)	2 m silicone (2x0,22 mm ²)	Ø 6 x 300 mm
TF5/E-10/6.0/300/2-4		
Pt100 (DIN EN 60751 Cl. B)	2 m silicone (4x0,22 mm ²)	Ø 6 x 300 mm
TF5/E-10/6.0/300/5-2		
Pt100 (DIN EN 60751 Cl. B)	5 m silicone (2x0,22 mm ²)	Ø 6 x 300 mm
TF5/E-10/6.0/300/5-4		
Pt100 (DIN EN 60751 Cl. B)	5 m silicone (4x0,22 mm ²)	Ø 6 x 300 mm



Article Number		
Sensor	Cable	Dimensions
TF5/E-10/6.0/400/2-2		
Pt100 (DIN EN 60751 Cl. B)	2 m silicone (2x0,22 mm ²)	Ø 6 x 400 mm
TF5/E-10/6.0/400/2-4		
Pt100 (DIN EN 60751 Cl. B)	2 m silicone (4x0,22 mm ²)	Ø 6 x 400 mm
TF5/E-10/6.0/400/5-2		
Pt100 (DIN EN 60751 Cl. B)	5 m silicone (2x0,22 mm ²)	Ø 6 x 400 mm
TF5/E-10/6.0/400/5-4		
Pt100 (DIN EN 60751 Cl. B)	5 m silicone (4x0,22 mm ²)	Ø 6 x 400 mm
TF5/E-20/6.0/050/2-2		
Pt1000 (DIN EN 60751 Cl. B)	2 m silicone (2x0,22 mm ²)	Ø 6 x 50 mm
TF5/E-20/6.0/050/2-4		
Pt1000 (DIN EN 60751 Cl. B)	2 m silicone (4x0,22 mm ²)	Ø 6 x 50 mm
TF5/E-20/6.0/050/5-2		
Pt1000 (DIN EN 60751 Cl. B)	5 m silicone (2x0,22 mm ²)	Ø 6 x 50 mm
TF5/E-20/6.0/050/5-4		
Pt1000 (DIN EN 60751 Cl. B)	5 m silicone (4x0,22 mm ²)	Ø 6 x 50 mm
TF5/E-20/6.0/100/2-2		
Pt1000 (DIN EN 60751 Cl. B)	2 m silicone (2x0,22 mm ²)	Ø 6 x 100 mm
TF5/E-20/6.0/100/2-4		
Pt1000 (DIN EN 60751 Cl. B)	2 m silicone (4x0,22 mm ²)	Ø 6 x 100 mm
TF5/E-20/6.0/100/5-2		
Pt1000 (DIN EN 60751 Cl. B)	5 m silicone (2x0,22 mm ²)	Ø 6 x 100 mm
TF5/E-20/6.0/100/5-4		
Pt1000 (DIN EN 60751 Cl. B)	5 m silicone (4x0,22 mm ²)	Ø 6 x 100 mm
TF5/E-20/6.0/200/2-2		
Pt1000 (DIN EN 60751 Cl. B)	2 m silicone (2x0,22 mm ²)	Ø 6 x 200 mm
TF5/E-20/6.0/200/2-4		
Pt1000 (DIN EN 60751 Cl. B)	2 m silicone (4x0,22 mm ²)	Ø 6 x 200 mm
TF5/E-20/6.0/200/5-2		
Pt1000 (DIN EN 60751 Cl. B)	5 m silicone (2x0,22 mm ²)	Ø 6 x 200 mm
TF5/E-20/6.0/200/5-4		
Pt1000 (DIN EN 60751 Cl. B)	5 m silicone (4x0,22 mm ²)	Ø 6 x 200 mm
TF5/E-20/6.0/300/2-2		
Pt1000 (DIN EN 60751 Cl. B)	2 m silicone (2x0,22 mm ²)	Ø 6 x 300 mm



Article Number		
Sensor	Cable	Dimensions
TF5/E-20/6.0/300/2-4		
Pt1000 (DIN EN 60751 Cl. B)	2 m silicone (4x0,22 mm ²)	Ø 6 x 300 mm
TF5/E-20/6.0/300/5-2		
Pt1000 (DIN EN 60751 Cl. B)	5 m silicone (2x0,22 mm ²)	Ø 6 x 300 mm
TF5/E-20/6.0/300/5-4		
Pt1000 (DIN EN 60751 Cl. B)	5 m silicone (4x0,22 mm ²)	Ø 6 x 300 mm
TF5/E-20/6.0/400/2-2		
Pt1000 (DIN EN 60751 Cl. B)	2 m silicone (2x0,22 mm ²)	Ø 6 x 400 mm
TF5/E-20/6.0/400/2-4		
Pt1000 (DIN EN 60751 Cl. B)	2 m silicone (4x0,22 mm ²)	Ø 6 x 400 mm
TF5/E-20/6.0/400/5-2		
Pt1000 (DIN EN 60751 Cl. B)	5 m silicone (2x0,22 mm ²)	Ø 6 x 400 mm
TF5/E-20/6.0/400/5-4		
Pt1000 (DIN EN 60751 Cl. B)	5 m silicone (4x0,22 mm ²)	Ø 6 x 400 mm

Accessories



DT/G
Digital display



KV/E
Compression Clamp



ZT/E
Immersion sleeve



MFL/E
Mounting flange



Accessories



MUD/E

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



TH3/Z

Immersion sleeve with compression clamp



Dimensional Drawing

