



TF4/E

Immersion Temperature Sensor with Housing and Flexible Silicone Cable

Measuring size: temperature

Output: passive sensor

Highlights: installation length 100-400 mm



Description

The TF4/E immersion sensor with flexible silicone cable measures the temperature in the range of -50 up to +180°C in gasiform medium and is with all current sensors available. The length can be defined by pulling out or pushing in the silicone cable. 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, Pt500, Pt1000, Ni1000, KTY, NTC, LM235Z (other on request) |
| Circuit type | 2-wire connection |
| Measurement current | approx. 1 mA |
| Electrical connection | screw terminals max. 1,5 mm ² |
| Cable | 0,3 m silicone cable (max +180°C) |
| Leakage resistance | > 100 MOhm, at +20°C (500 V DC) |
| Housing | polyamide with snap closing screws, colour white like RAL 9010 |
| Cable gland | PG11 high-strength cable gland with strain relief |
| Installation length | 100-400 mm |
| Material | Protection sleeve: stainless steel VA 1.4571 |
| Dimensions | Housing: L 64 x W 58 x H 34,5 mm, Protection sleeve: Ø 6 x 50 mm |
| Protection type | IP65 (housing), IP67 (sensor) |
| 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 | Installation length |
| TF4/E-10 | |
| Pt100 (DIN EN 60751 Cl. B) | 100-400 mm |
| TF4/E-15 | |
| Pt500 (DIN EN 60751 Cl. B) | 100-400 mm |
| TF4/E-20 | |
| Pt1000 (DIN EN 60751 Cl. B) | 100-400 mm |
| TF4/E-30 | |
| Ni1000 (whirl-sintered) | 100-400 mm |
| TF4/E-40 | |
| Ni1000TK5000 (whirl-sintered) | 100-400 mm |
| TF4/E-60 | |
| LM235Z ($\pm 1\%$) | 100-400 mm |
| TF4/E-70 | |
| NTC20k ($\pm 1\%$) | 100-400 mm |
| TF4/E-75 | |
| NTC5k ($\pm 1\%$) | 100-400 mm |
| TF4/E-80 | |
| NTC10k ($\pm 1\%$) | 100-400 mm |
| TF4/E-81 | |
| KTY 81-110 ($\pm 1\%$) | 100-400 mm |
| TF4/E-82 | |
| KTY 81-121 ($\pm 1\%$) | 100-400 mm |
| TF4/E-83 | |
| KTY 81-210 (KTY 10-6) ($\pm 1\%$) | 100-400 mm |



Accessories



DT/G
Digital display



KV/E
Compression Clamp



ZT/E
Immersion sleeve



MFL/E
Mounting flange



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



TH3/Z
Immersion sleeve with compression clamp



Dimensional Drawing

