

Temperature Sensors for Surface Measurement **TOPE-243, TTJE-243, TTKE-243**

Specification

Temperature range / sensing element

-50÷400°C	Pt100	class B
-40÷400°C	K, J	class 2

Pipe band clamp

- material: stainless steel 1.4301
- pipe band clamp diameter 16÷180 mm
- width b: 9 for D<110
12 for D>110

Sheath

- material: stainless steel 1.4541:
- welded tangentially to band clamp (S)
- welded perpendicularly to band clamp (P)

Lead wire

- stranded Cu wire or thermocouple stranded wire: 2x0,22 mm²
- fiberglass insulation, metallic overbraid
- length L_p [m]: 1,5 (standard)
- Cu wire resistance ~0,14 Ω/m = ~0,36°C

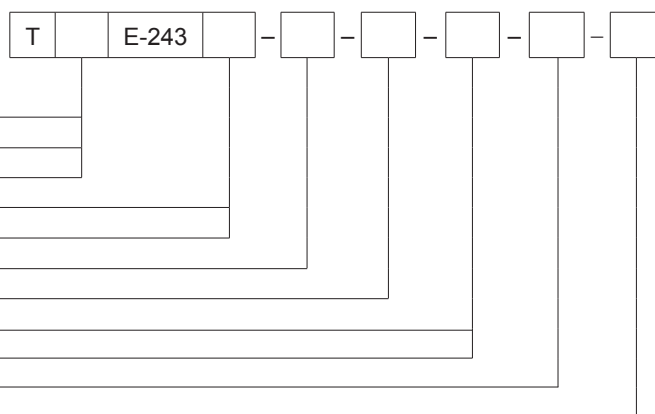
Options

- Pt500, Pt1000, Ni100, Ni1000
- other lead wire insulation types acc. to requirements:
- operating temperature of silicone insulation – up to 180°C
- operating temperature of teflon insulation – up to 200°C
- 3, 4-wire connection for Pt100
- Pt100: class A -30÷300°C, class AA 0÷150°C; TC: class 1

Ordering code

Temperature sensor

- RTD Pt: **OP** _____
- Thermocouple Fe-CuNi: **TJ** _____
- Thermocouple NiCr-NiAl: **TK** _____
- Band clamp tangent to sheath: **S** _____
- Band clamp perpendicular to sheath: **P** _____
- Pipeline diameter D [mm]: **40** _____
- RTD type: **Pt100** _____
- RTD / thermocouple class: **A, B*/ 1, 2** _____
- RTD connection for Pt100: **2, 3, 4-wire** _____
- Lead wire length L_p [m]: **1,5** _____
- Lead wire insulation other than fiberglass: Silicone (**Si**), teflon (**F**) _____
- *Other parameters acc. to requirements



Ordering example:

TTJE-243S-25÷40-2-1,5 m-Si single sensor with thermocouple Fe-CuNi /J/, class 2, with sheath welded tangentially to band clamp, band clamp diameter 25÷40 mm, silicone insulated lead wire length L_p=1,5 m

TOPE-243P-80÷100-Pt100-B-2-1,5 m-Ws single sensor with Pt100, class B, 2-wire connection, sheath welded perpendicularly to band clamp, fiberglass silicone insulated lead wire length L_p=1,5 m

