

Temperature Transmitters

TSOK series OEM style temperature transmitter



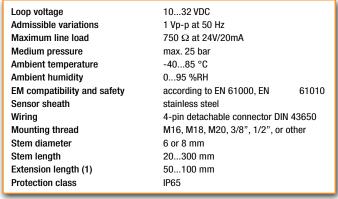
TSOK measures temperature by the means of a Ptx sensitive element and converts it into standard 4...20 mA 2-wire current signal. This transmitter has a robust vibration-proof stainless steel sheath with IP65 protection class, and is equipped with a DIN 43650 connector that allows fast and easy electrical wiring. The probe interior is filled with special compound, which protects the electronics from the harsh ambient influences. Eight different temperature measurement ranges from -50 °C and up to 400 °C as well as customer specified ranges are available.

Various stem diameters and lengths as well as stainless steel types are also available. Thanks to its small size and robust design, TSOK is applicable for cars, rail vehicles, construction machines, and other industrial equipment.

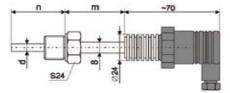
- Pt100 or Pt1000 sensitive element
- 2-wire 4...20 mA output
- Easy & Fast connection plug M12
- Vibration-proof design
- Small & compact dimensions
- Extended design for higher temperature available
- High protection class IP65
- Local indicator available

Technical Information

Input (RTD) type Pt100 or Pt1000 (w=1.385), class B Measurement range -50...50 °C: -20...60 °C: 0...50 °C: 0...100 °C; -50...100 °C; 0...150 °C; 0...200 °C; 0...300 °C (1); 0...400 °C (1,4) Range on request minimum span 50 °C Signal type 4...20 mA, 2-wire measured value Linearity proportional to Output at sensor burnout 32 mA Output at sensor shorted 0.2 mA Measurement error 0.2% from span or 0.2 °C (2) Non-linearity within measurement error Temperature drift 0.01% from span for 1 °C







(1) Only for extended length variant

Options & Ordering Information

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Feature or option	Order Code TSO-X.X.X.X.X.X.X.X.X.X.
Variant	K - short-design, K1 - extended-design
Temperature range	T175050 °C, T102060 °C, T18 - 050 °C, T19 - 0100 °C, T1250100 °C, T20 - 0150 °C, T7 - 0200 °C, T23 - 0300 °C (1), T8 - 0400 °C (1,4), TZ - other (specify, $T \ge 50$ °C)
Stem diameter	6 - 6mm, 8 - 8mm
Stem length 'n' mm	20300 - (step 5 mm)
Extension length (1) 'm' mm	50100 - (step 5 mm)
Mounting thread	Q0 - M16x1.5, Q1 - M18x1.5, Q2 - M20x1.5, Q3 - G3/8", Q4 - G1/2", Q9 - 3/8" NPT, Q10 - 1/2" NPT, QZ - other (specify!)
Sheath material	M1 - 1.4301, M2 - 1.4541, M3 - 1.4571, M9 - 1.4404, M15 - 1.4362
Tip shape	X - standard closed, N - narrowed
Options	X - none, OP - electrochemically polished sheath surface
Local Indicator TI200	X - none, A - local indicator Tl200 (3)

(3) Ordered separately - consult Flowtechnik

(4) Consult Flowtechnik



Temperature Transmitters

PPL8 series Pt100 & Pt1000 temperature transmitter

The PPL8 sensor incorporates a pocket as well as a spring loaded insert which allows the sensor to be withdrawn extremely easily without breaking into the process line. We can manufacture the sensor stem in any immersion length and process connection to meet your exact requirements. A lagging extension can also be specified and with various options available for the terminal head, including IP68 stainless steel versions, we are sure to satisfy all of your requirements.



Technical Information

Sensor Type	Platinum Resistance Thermometer—Pt100 or Pt1000
Operating Range	-50 to 250°C (Unless Otherwise Requested)
Sheath Material	316 stainless steel
Tolerance Band	Class B, Class A, 1/3 DIN, 1/5 DIN or 1/10 DIN
Wiring System	2, 3 or 4 wire, Simplex or Duplex
Head Types	A - KNE Aluminium Alloy, IP68 B - KSE Aluminium Alloy, IP68 C - ABS, IP67 D - Glass Filled Nylon, IP65 E - 316 stainless steel, IP68 (Other heads available upon request)
Head Options	A - Ceramic Terminal Block B - In Head Transmitter—SEM203P (Specify Range) C - Tails for Customers Own Transmitter

Options & Ordering Information

