



1000 °C series

Platinum sensor with wires

For extremely high temperatures



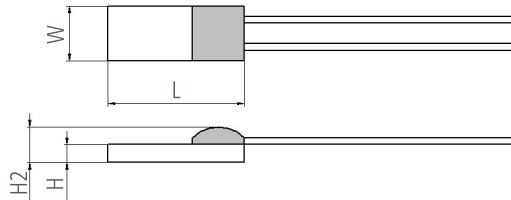
INNOVATIVE SENSOR TECHNOLOGY



Benefits & Characteristics

- Excellent long-term stability
- 3770 ppm/K characteristics curve
- Low self-heating
- Small dimensions
- Vibration resistant
- Fast response time
- Simple interchangeability

Illustration¹⁾



¹⁾ For actual size, see dimensions

Technical Data

Operating temperature range:	-70 °C to +1000 °C
Nominal resistance:	200 Ω at 0 °C
Characteristics curve:	3770 ppm/K
Tolerance class (dependent on temperature range):	IST AG reference -40 ° to +300 °C +300 °C to +850 °C
	K ±3 K ±1 %
Connection:	Pt-wire, 7 x 0.25 (L x Ø in mm) (solderable, weldable, crimpable)
Recommended applied current: ¹⁾	Max. 2.8 mA at 850 °C
¹⁾ Self-heating must be considered	
Other alternatives:	Substrate thickness

Order Information - 10K (Pt-wire, Ø 0.25 mm)

Size	Dimensions (L x W x H / H2 in mm)
	L ±0.2 mm, W ±0.2 mm, H ±0.1 mm, H2 ±0.3 mm
Nominal resistance: 200 Ω at 0 °C	
420	3.85 x 1.9 x 0.45 / 0.75 P0K2.420.10K.K.007.D.S
Order code	310.00445

Additional Documents

Application Note:	Document name: ATP_E
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Order Information

Platinum Sensor

Secondary reference



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Material

P = Platinum

TCR

= Pt 3770 ppm/K G = Pt 3911 ppm/K
 U = Pt 3750 ppm/K W = Pt 3850 ppm/K (extended operating temperature range in class A)

Resistance in Ω at 0 °C

Size in mm

Operating temperature range

1 = -50 °C to +150 °C 6 = -200 °C to +600 °C
 2 = -50 °C to +200 °C 7 = -200 °C to +750 °C
 3 = -200 °C to +300 °C 8 = -200 °C to +850 °C
 4 = -200 °C to +400 °C 10 = -70 °C to +1000 °C

Connection

S = SIL FK = flat wire customer specific
 I = insulated wire SW = perpendicular wire
 K = customer specific L = insulate stranded wire
 W = wire E = enameled Cu wire
 FW = flat wire

Tolerance class

A = IEC 60751 F0.15 K = customer specific
 B = IEC 60751 F0.3 P = pair
 C = IEC 60751 F0.6 G = group
 Y = IEC 60751 F0.1

Wire length in mm

Special

T = substrate thickness 0.25 mm M = metallized backside
 D = substrate thickness 0.38 mm U = inverted welding
 R = round housing S = special
 W = sintered powder

P OK2. 420. 10 K. K. 007. D



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