

physical. chemical. biological.



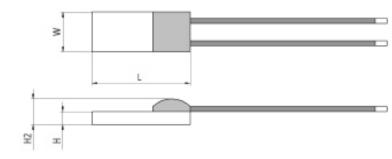
150 °C Series Platinum sensor with wires For low temperatures

Benefits & Characteristics

- Excellent long-term stability
- Low self-heating
- Long isolated wires

- Fast response time
- Metallized backside available
- Customer-specific sensor available upon request

Illustration¹⁾



1) For actual size, see dimensions

Technical Data

Operating temperature range:	-50 °C to +150 °C						
Nominal resistance:*	100 Ω at 0 °C						
	500 Ω at 0 °C						
	1000 Ω at 0 °C						
Characteristics curve:*	3850 ppm/K						
Long-term stability:	< 0.04 % at 1000 h at maximal operating temperature						
Tolerance class (dependent on temperature range):*	IST AG reference						
	IEC 60751 F0.15 A						
	IEC 60751 F0.3 B						
	IEC 60751 F0.6 C						
	IEC 60751 F0.1 Y						
Connection:*	Enameled Cu-wire, Ø 0.2 mm						
Alternative wire construction:*	Inverted wires; Extended wires						
Recommended applied current: ¹⁾	1 mA at 100 Ω						
¹⁾ Self-heating must be considered	0.5 mA at 500 Ω						
	0.3 mA at 1000 Ω						
Other alternatives:*	Metallized backside						
	Housed in round ceramics (for dry environments only)						
	Grouped and paired						
	Substrate thickness						
	Wire length						
*Customer-specific alternatives available	Temperature range						



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Product Image



Order Information: 1E (Enameled Cu-wire, Ø 0.2 mm (161,202,232) / Ø 0.15 mm (308))

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	F0.1 (class Y)	F0.15 (class A)	F0.3 (class B)							
	1.6 x 1.2 x 0.25 / 0.6	Upon request	Upon request	POK1.161.1E.B.200 150634 <i>010.00693</i>							
308 Order code Former Orde	3.0 x 0.8 x 0.25 / 0.6 r code	Upon request	P0K1.308.1E.A.025 101805	POK1.308.1E.B.100 100720 <i>010.01672</i>							
With metallized backside											
232 Order code Former order	2.3 x 2 x 0.65 / 1.3			P0K1.232.1E.B.015.M 101064 <i>010.02444</i>							
Nominal resis	stance: 1000 Ω at 0 °C										
161 Order code <i>Former Orde</i>	1.6 x 1.2 x 0.25 / 0.6 r code	Upon request	P1K0.161.1E.A.040 100748 <i>010.01732</i>	P1K0.161.1E.B.020 101010 <i>010.02327</i>							
202 Order Code	2 x 2 x 1.3	Upon request	Upon request	P1K0.202.1E.B.120 101553							
308 Order code	3.0 x 0.8 x 0.25 / 0.6	Upon request	P1K0.308.14.A.025 101324	P1K0.308.1E.B.035 101559							

Additional Documents

	Document name:
Application Note:	ATP_E

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Order Information Platinum Sensor Secondary reference

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					2						300 °C				-20											
					4						100 °C				-70											
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