

physical. chemical. biological.





4-wire platinum sensor For high-precision measurements







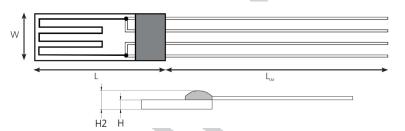
Benefits & Characteristics

PW Series

- 4-wire construction on chip
- 5x reduced hysteresis compared to standard platinum sensors ¹⁾
- Capable of measuring in class F0.15 up to +600 °C
- Offset independent of extension point
- Very stable characteristics curve
- Excellent long-term stability

1) tested between -196 °C and +400 °C

Illustration²⁾



Dimension Tolerances:

W ±0.2 mm, L ±0.2 mm, H ±0.1 mm, H2 ±0.3 mm, L $_{\rm W}$ (up to 30 mm) ±1 mm

2) For actual size, see dimensions

Technical Data

Operating temperature range:	-200 °C to +600 °C
Nominal resistance:*	100 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:*	IST AG reference
	IEC 60751 F0.15 A -200 °C to +600 °C
Connection:*	Pt-wire, \varnothing 0.2 mm (solderable, weldable, crimpable, brazeable)
Recommended applied current:3)	0.2 mA at 100 Ω
³⁾ Self-heating must be considered	0.06 mA at 1000 Ω

^{*} Customer-specific alternatives available



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Order Information - 7W (Pt-wire, Ø 0.2 mm)

Dimensions (L x W x H / H2; $L_{\rm W}$ in mm) Size F0.15 (class A)

Nominal resistance: 100 Ω at 0 $^{\circ}$ C

5018 5.0 x 1.8 x 0.45 / 0.8; 10.0 PW0K1.5018.7W.A.010-4

Order code 104330 Former order code 310.01475

Nominal resistance: 1000 Ω at 0 °C

5018 5.0 x 1.8 x 0.45 / 0.8; 10.0 PW1K0.5018.7W.A.010-4

Order code 104331 Former order code 310.01476

Additional Documents

Document name: Application Note: ATP_E





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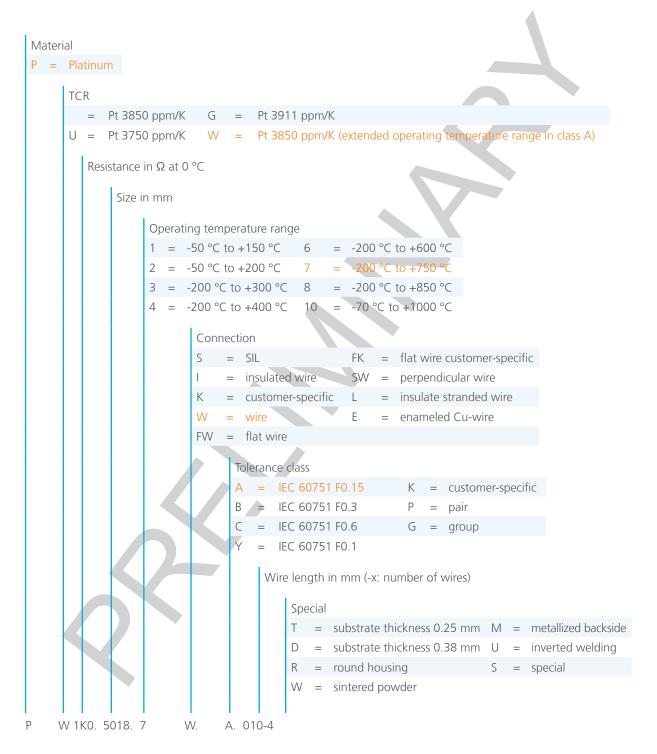
Order Information Platinum Sensor Secondary reference













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