

physical. chemical. biological.





# 750 °C Series Platinum sensor with wires For very high temperatures





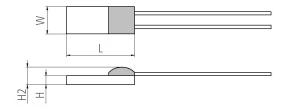


#### Benefits & Characteristics

- Excellent long-term stability
- Low self-heating
- Fast response time

- Vibration and temperature shock resistant
- Simple interchangeability
- Customer-specific sensor available upon request

### Illustration<sup>1)</sup>



1) For actual size, see dimensions

#### Technical Data

Operating temperature range:	-200 °C to +750 °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	А	
	IEC 60751 F0.3	В	
	IEC 60751 F0.6	С	
	IEC 60751 F0.1	Υ	
Connection:*	Pt-wire, $\varnothing$ 0.2 mm (solderable, weldable, crimpable, brazeable)		
Recommended applied current:1)	1 mA at 100 $\Omega$		
<sup>1)</sup> Self-heating must be considered	0.5 mA at 500 $\Omega$		
	0.3 mA at 1000 $\Omega$		
Other alternatives:*	Grouped and paired		
	Substrate thickness		

<sup>\*</sup> Customer-specific alternatives available



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

Dimensions (L x W x H / H2 in mm) Size F0.1 (class Y) F0.15 (class A) F0.3 (class B)

L ±0.2 mm, W ±0.2 mm, H ±0.1 mm, H2 ±0.3 mm

Nominal resistance: 100  $\Omega$  at 0 °C

516 5 x 1.6 x 0.65 / 1.3 P0K1.516.7W.B.007 Upon request P0K1.516.7W.A.007 Order code 010.00644 010.00643 102 P0K1.102.7W.A.010 P0K1.102.7W.B.010 10 x 2 x 0.65 / 1.3 Upon request 010.00155 Order code 010.00156

Nominal resistance: 500  $\Omega$  at 0 °C

516 5 x 1.6 x 0.65 / 1.3 Upon request Upon request P0K5.516.7W.B.007 Order code 010.01660

Nominal resistance: 1000  $\Omega$  at 0 °C

Norminal resistance. Todo se at o				
216	2.5 x 1.6 x 0.65 / 1.3	Upon request	Upon request	P1K0.216.7W.B.010
Order o	code			310.00158
516	5 x 1.6 x 0.65 / 1.3	P1K0.516.7W.Y.010	P1K0.516.7W.A.010	P1K0.516.7W.B.010
Order o	code	010.01683	010.01073	010.01072
520	5 x 2 x 0.65 / 1.3	Upon request	P1K0.520.7W.A.010	P1K0.520.7W.B.010
Order o	code		010.00953	010.00283
102	10 x 2 x 0.65 / 1.3	Upon request	Upon request	P1K0.102.7W.B.010
Order o	code			010.00319

#### **Additional Documents**

Document name: Application Note: ATP\_E



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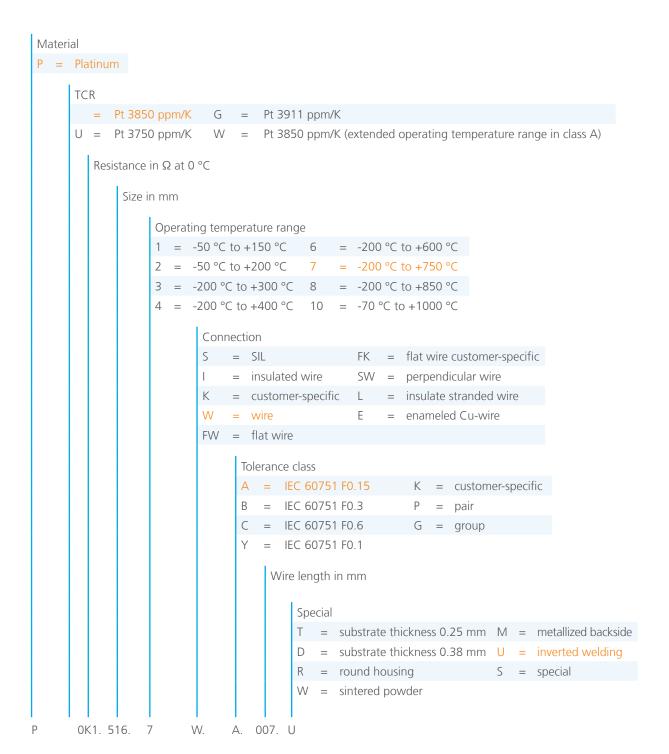
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# Order Information Platinum Sensor Secondary reference













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