





200 °C Series Platinum sensor with wires For low temperatures





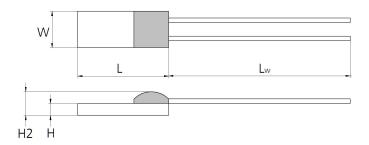




- Excellent long-term stability
- Low self-heating
- Long isolated wires
- Stranded wires available

- 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 +200 °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 A	G reference	
	IEC 60751 F0.15	А	
	IEC 60751 F0.3	В	
	IEC 60751 F0.6	С	
	IEC 60751 F0.1	Υ	
Connection:*	Cu/Ag-single wire with PTFE (solderable, w	eldable, crimpable)	
	Cu/Ag-stranded wire with PTFE (solderable crimpable)	, weldable,	
	Ag-wire, Ø 0.25 mm, metallized backside		
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		















^{*} Customer-specific alternatives available

Order Information - 2I (Cu/Ag-wire, AWG30, PTFE-insulated)

Size	Dimensions	F0.1 (class Y)	F0.15 (class A)	F0.3 (class B)
	$(L \times W \times H / H2 \text{ in mm})$			
	L ±0.2 mm, W ±0.2 mm,			
	H ± 0.1 mm, H2 ± 0.3 mm			

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

232 Order code Former orde	2.3 x 2.0 x 0.65 / 1.3 er code	Upon request	P0K1.232.2I.A.030 101317 <i>010.02857</i>	P0K1.232.2I.B.030 100894 <i>010.02071</i>
232 Order code Former orde	2.3 x 2.0 x 0.65 / 1.3 er code	Upon request	P0K1.232.2I.A.050 101092 <i>010.02487</i>	P0K1.232.2I.B.050 100443 <i>010.00678</i>
420 Order code Former orde	4.0 x 2.0 x 0.65 / 1.3 er code	Upon request	Upon request	P0K1.420.2I.B.015 101435 <i>010.03022</i>
516 Order code Former orde	5.0 x 1.6 x 0.65 / 1.3	Upon request	Upon request	P0K1.516.2I.B.030 100384 <i>010.00508</i>
520 Order code Former orde	5.0 x 2.0 x 0.65 / 1.3 er code	Upon request	Upon request	P0K1.520.2I.B.100 100173 <i>010.00110</i>
538 Order code Former orde	5.0 x 3.8 x 0.65 / 1.3 er code	Upon request	Upon request	P0K1.538.2I.B.060 100389 <i>010.00527</i>
102 Order code Former orde	10.0 x 2.0 x 0.65 / 1.3 er code	Upon request	Upon request	P0K1.102.2I.B.050 100742 <i>010.01710</i>

With substrate thickness 0.4 mm (D)

516	5.0 x 1.6 x 0.4 / 1.05	Upon request	Upon request	P0K1.516.2I.B.1000.D
Order code				100531
Former orde	er code			010.00987

Nominal resistance: 500 Ω at 0 °C

516	5.0 x 1.6 x 0.65 / 1.3	Upon request	Upon request	P0K5.516.2I.B.080
Order code)			100987
Former ord	ler code			010.02278













Size	Dimensions (L x W x H / H2 in mm) L ±0.2 mm, W ±0.2 mm,	F0.1 (class Y)	F0.15 (class A)	F0.3 (class B)
	H ±0.1 mm, H2 ±0.3 mm			

538	5.0 x 3.8 x 0.65 / 1.3	Upon request	Upon request	P0K5.538.2I.B.035
Order code				100236
Former orde	r code			010.00200
102	10.0 x 2.0 x 0.65 / 1.3	Upon request	Upon request	P0K5.102.2I.B.070
Order code				100241
Former orde	r code			010.00210

Nominal resistance: 1000 Ω at 0 °C

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202 Order code Former orde		Upon request	Upon request	P1K0.202.2l.B.100 101611 <i>010.03229</i>
	1.8 x 2.0 x 0.65 / 1.0	Upon request	P1K0.202.2I.A.150 101544 010.03162	P1K0.202.2I.B.150 101545 010.03163
	2.3 x 2.0 x 0.65 / 1.3	Upon request	Upon request	P1K0.232.2I.B.015 100731 010.01691
232 Order code Former orde	2.3 x 2.0 x 0.65 / 1.3 or code	P1K0.232.2I.Y.150 101085 <i>010.02475</i>	P1K0.232.2I.A.050 101225 <i>010.02712</i>	P1K0.232.2I.B.050 100958 <i>010.02225</i>
232 Order code Former orde	2.3 x 2.0 x 0.65 / 1.3	Upon request	Upon request	P1K0.232.2I.B.080 101342 <i>010.02888</i>
520 Order code Former orde	5.0 x 2.0 x 0.65 / 1.3 or code	Upon request	P1K0.520.2I.A.050 100392 <i>010.00566</i>	P1K0.520.2I.B.050 100391 <i>010.00565</i>
102 Order code Former orde	10.0 x 2.0 x 0.65 / 1.3 er code	Upon request	Upon request	P1K0.102.2I.B.045 100453 <i>010.00699</i>
102 Order code Former orde	10.0 x 2.0 x 0.65 / 1.3 er code	Upon request	Upon request	P1K0.102.2I.B.120 101286 <i>010.02810</i>

Order Information - 2I (Cu/Ag-wire, AWG32, PTFE-insulated)

Nominal resistance: 100 Ω at 0 °C

161	1.6 x 1.2 x 0.25 / 0.6	Upon request	Upon request	P0K1.161.2I.B.050
Order code				101200
Former orde	er code			010.02677













(L x W x H / H2 in mm) L ±0.2 mm, W ±0.2 mm, H ±0.1 mm, H2 ±0.3 mm

F0.15 (class A)

F0.3 (class B)

Nominal resistance: 1000 Ω at 0 °C

161	1.6 x 1.2 x 0.25 / 0.6	Upon request	Upon request	P1K0.161.2I.B.150
Order code				101199
Former orde	r code			010.02674
161	1.6 x 1.2 x 0.25 / 0.6	Upon request	P1K0.161.2I.A.750	P1K0.161.2I.B.750
Order code			101302	100959
Former orde	r code		010.02833	010.02226

Order Information - 2L (Cu/Ag-stranded wire, AWG28/7, PTFE-insulated)

Nominal	resistance: 100 Ω at 0 °C			
202 Order coo		Upon request	Upon request	P0K1.202.2L.B.010 101043 <i>010.02392</i>
	2.3 x 2.0 x 0.65 / 1.3 de	Upon request	Upon request	P0K1.232.2L.B.050 100522 010.00966
232 Order coo	-	Upon request	Upon request	P0K1.232.2L.B.100 100405 <i>010.0060</i> 9
232 Order coo		Upon request	Upon request	P0K1.232.2L.B.150 100394 010.00574
232 Order coo		Upon request	Upon request	P0K1.232.2L.B.1500 100914 <i>010.02115</i>
520 Former or		Upon request	P0K1.520.2L.A.100 Upon request 010.02802	P0K1.520.2L.B.100 101284 010.02803
520 Order coo		Upon request	Upon request	P0K1.520.2L.B.250 100590 <i>010.01116</i>

Nominal resistance: 1000 Ω at 0 $^{\circ}\text{C}$

232	2.3 x 2.0 x 0.65 / 1.3	Upon request	Upon request	P1K0.232.2L.B.150
Order code	100346			
Former ora	010.00408			













Size	Dimensions	F0.1 (class Y)	F0.15 (class A)	F0.3 (class B)
	/!			

(L x W x H / H2 in mm) L ±0.2 mm, W ±0.2 mm, H ±0.1 mm, H2 ±0.3 mm

2.3 x 2.0 x 0.65 / 1.3 P1K0.232.2L.B.200 232 Upon request Upon request

Order code 100810 Former order code 010.01884

102 10.0 x 2.0 x 0.65 / 1.3 Upon request Upon request P1K0.102.2L.B.270

100431 Order code Former order code 010.00655

Order Information - 2W (Ag-wire, Ø 0.25 mm, metallized backside)

Nominal resistance: 100 Ω at 0 °C

232 2.3 x 2.0 x 0.65 / 1.3 Upon request P0K1.232.2W.A.010.M P0K1.232.2W.B.010.M Order code 100727 100434 Former order code 010.01684 010.00661

Nominal resistance: 1000 Ω at 0 °C

2.3 x 2.0 x 0.65 / 1.3 Upon request Upon request P1K0.232.2W.B.010.M 101261 Order code Former order code 010.02768

Additional Documents

	Document name:
Application Note:	ATP_E





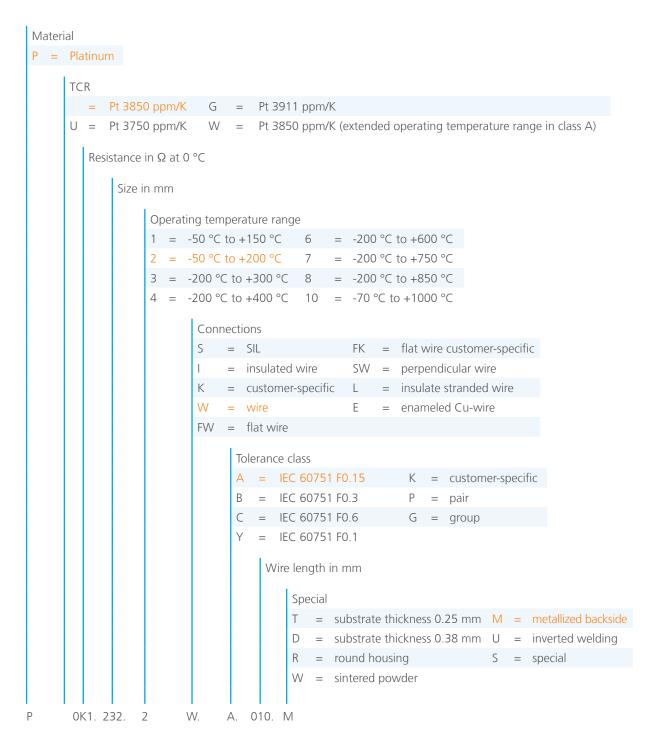








Order Information Platinum sensor Secondary reference





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