



600 °C Series

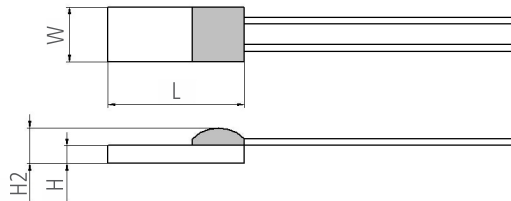
Platinum sensor with wires

For high temperatures

Benefits & Characteristics

- Excellent long-term stability
- Low self-heating
- Fast response time
- Small dimensions
- Vibration and temperature shock resistant
- Paired sensors available
- 1/5 IEC and 1/10 IEC available
- Customer-specific sensor available upon request

Illustration¹⁾



Dimension tolerances: $W \pm 0.2 \text{ mm}$, $L \pm 0.2 \text{ mm}$, $H \pm 0.1 \text{ mm}$, $H2 \pm 0.3 \text{ mm}$, $L_w \text{ (up to 30 mm)} \pm 1 \text{ mm}$

¹⁾ For actual size, see dimensions

Technical Data

Operating temperature range:	-200 °C to +600 °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:*	Pt-cladded Ni-wire, Ø 0.2 mm (solderable, weldable, crimpable, brazeable)
Alternative wire construction:*	Inverted wires
Recommended applied current: ¹⁾	1 mA at 100 Ω 0.5 mA at 500 Ω 0.3 mA at 1000 Ω

¹⁾ Self-heating must be considered



Other alternatives:*
 Housed in round ceramics (for dry environments only) - see data sheet DTP_Round_Housing_E
 Grouped and paired
 Substrate thickness

* Customer-specific alternatives available

Order Information - 6W (Pt-cladded Ni-wire, Ø 0.2 mm)

Size	Dimensions (L x W x H / H2; L _w in mm)	F0.1 (class Y)	F0.15 (class A)	F0.3 (class B)
Nominal resistance: 100 Ω at 0 °C				
161	1.6 x 1.2 x 0.25 / 0.6; 7.0	P0K1.161.6W.Y.007	P0K1.161.6W.A.007	P0K1.161.6W.B.007
Order code		010.02938	010.02195	010.02196
161	1.6 x 1.2 x 0.25 / 0.6; 10.0	P0K1.161.6W.Y.010	P0K1.161.6W.A.010	P0K1.161.6W.B.010
Order code		010.00066	010.00064	010.00062
202	2.0 x 2.0 x 0.65 / 1.3; 7.0	Upon request	P0K1.202.6W.A.007	P0K1.202.6W.B.007
Order code			010.02019	010.02020
202	2.0 x 2.0 x 0.65 / 1.3; 10.0	P0K1.202.6W.Y.010	P0K1.202.6W.A.010	P0K1.202.6W.B.010
Order code		010.02094	010.02033	010.02034
216	2.5 x 1.6 x 0.65 / 1.3; 7.0	P0K1.216.6W.Y.007	P0K1.216.6W.A.007	P0K1.216.6W.B.007
Order code		010.02977	010.01111	010.01129
216	2.5 x 1.6 x 0.65 / 1.3; 10.0	P0K1.216.6W.Y.010	P0K1.216.6W.A.010	P0K1.216.6W.B.010
Order code		010.00652	010.00620	010.00627
232	2.2 x 2.0 x 0.65 / 1.1; 7.0	P0K1.232.6W.Y.007	P0K1.232.6W.A.007	P0K1.232.6W.B.007
Order code		010.01089	010.01793	010.01006
232	2.2 x 2.0 x 0.65 / 1.1; 10.0	P0K1.232.6W.Y.010	P0K1.232.6W.A.010	P0K1.232.6W.B.010
Order code		010.00032	010.00030	010.00029
232	2.2 x 2.0 x 0.65 / 1.1; 20.0	P0K1.232.6W.Y.020	P0K1.232.6W.A.020	P0K1.232.6W.B.020
Order code		010.02910	010.02909	010.02027
516	5.0 x 1.6 x 0.65 / 1.3; 7.0	Upon request	P0K1.516.6W.A.007	P0K1.516.6W.B.007
Order code			010.01942	010.01943
516	5.0 x 1.6 x 0.65 / 1.3; 10.0	P0K1.516.6W.Y.010	P0K1.516.6W.A.010	P0K1.516.6W.B.010
Order code		010.00084	010.00083	010.00082
520	5.0 x 2.0 x 0.65 / 1.3; 10.0	P0K1.520.6W.Y.010	P0K1.520.6W.A.010	P0K1.520.6W.B.010
Order code		010.00101	010.00099	010.00098
538	5.0 x 3.8 x 0.65 / 1.3; 10.0	Upon request	P0K1.538.6W.A.010	P0K1.538.6W.B.010
Order code			010.01826	010.01001
102	10.0 x 2.0 x 0.65 / 1.3; 10.0	P0K1.102.6W.Y.010	P0K1.102.6W.A.010	P0K1.102.6W.B.010
Order code		010.00154	010.00153	010.00152

Nominal resistance: 500 Ω at 0 °C

161	1.6 x 1.2 x 0.25 / 0.6; 10.0	P0K5.161.6W.Y.010	P0K5.161.6W.A.010	P0K5.161.6W.B.010
Order code		010.00182	010.00181	010.00180
202	2.0 x 2.0 x 0.65 / 1.3; 7.0	Upon request	Upon request	P0K5.202.6W.B.007
Order code				010.02516