

Platinum Temperature Sensors

4SW – Product Series

Temperature Range: -200°C...+400°C

Platinum temperature sensor elements with perpendicular wire connections

Advantage: Perfect for small contact surfaces

Technical Data

Specification:	DIN EN 60751
Temperature range:	-200°C to +400°C
Temperature Coefficient:	TCR = 3850 ppm/K
Tolerance Classes:	F 0.1 (Class Y) -50°C to +150°C F 0.15 (Class A) -90°C to +300°C F 0.3 (Class B) -200°C to +400°C F 0.6 (Class C) -200°C to +400°C 1/5 F 0.3 (Class K) on request 1/10 F 0.3 (Class K) on request
Leads:	Silver wire ($\emptyset = 0.25 \text{ mm}$)
	Recommended connection technology: Soldering, Welding
Lead Lengths:	10 mm
Long-term stability:	Max. Drift = Less than 0.03% after 1000h at max. operating temperature
Note:	Other connection lengths and chip sizes on request







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4W 232

Dimensions, LxW: 2.3 x 2.0 mm

Nominal Resistance

at 0°C (ohm):

100/500/1000

Self Heating (mK): Water (v= 0 m/s) $\Delta T_w = 2.5$ at 0°C

Air (v= 0 m/s) $\Delta T_a = 25$ at 0°C

Response Time (s): Water (v= 0.4 m/s) $T_{0.5} = 0.15$

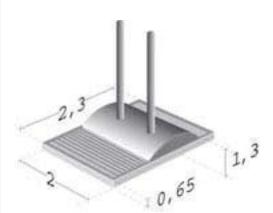
 $T_{0.63} = 0.2$ $T_{0.9} = 0.55$

Air (v= 1 m/s) $T_{0.5} = 4.5$

 $T_{0.63} = 6$ $T_{0.9} = 12$

Measuring Current (mA): 100Ω : 1

500 Ω: 0.5 1000 Ω: 0.3



 Order Example:
 P
 1K0.
 232.
 4
 SW.
 B.
 010

 1
 2
 3
 4
 5
 6
 7

- 1. Material Identification = Platinum temperature sensor
- 2. Resistance Value in ohm = $1000\Omega / 0^{\circ}C$
- 3. Chip Dimension = $2.3 \times 2.0 \text{ mm}$
- 4. Temperature Range = -200 °C to +400 °C
- 5. Extension = Perpendicular leads
- 6. Tolerance Class = DIN EN 60751 F 0.3 (former Class B)
- 7. Connection length = 10 mm



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