



Platinum Temperature Sensors

4U – Product Series

Temperature Range: –200°C...+400°C

Platinum temperature sensor elements with inverse wire connections

- Advantages:**
- Better isolation against mounting area
 - Vertical wires can be carried away on chip area
 - Perfect for limited space packaging

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 (Ø = 0.25 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	



INNOVATIVE SENSOR TECHNOLOGY

ISTAG, Industriestrasse 2, CH-9630 Wattwil, Switzerland, Phone (+)41 71 987 73 73, Fax (+)41 71 987 73 77
e-mail info@ist-ag.com, www.ist-ag.com



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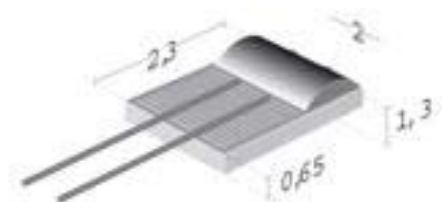
4U 161

Dimensions, LxW:	1.6 x 1.2 mm	
Nominal Resistance at 0°C (ohm):	1000	
Self Heating (mK):	Water (v= 0 m/s)	$\Delta T_w = 8.3$ at 0°C
	Air (v= 0 m/s)	$\Delta T_a = 56$ at 0°C
Response Time (s):	Water (v= 0.4 m/s)	$T_{0.5} = 0.05$
		$T_{0.63} = 0.08$
		$T_{0.9} = 0.18$
	Air (v= 1 m/s)	$T_{0.5} = 1$
		$T_{0.63} = 1.2$
		$T_{0.9} = 2.5$
Measuring Current (mA):	1000 Ω : 0.3	



4U 232

Dimensions, LxW:	2.3 x 2.0 mm	
Nominal Resistance at 0°C (ohm):	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):	1000 Ω : 0.3	



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Order Example:

P	1K0.	232.	2	I.	B.	100.	U
1	2	3	4	5	6	7	8

1. Material Identification = Platinum temperature sensor
2. Resistance Value in ohm = 1000Ω / 0°C
3. Chip Dimension = 2.3 x 2.0 mm
4. Temperature Range = -200 °C to +400 °C
5. Extension = Insulated contacts
6. Tolerance Class = DIN EN 60751 F 0.3 (former Class B)
7. Connection length = 10 mm
8. Special = Inverted Welding



INNOVATIVE SENSOR TECHNOLOGY

PRC Technologies Corp., Ltd.

Tel: 02 530 1714, 02 530 1619, 02 530 1621

Fax: 02 530 1731

Email: info@prctechth.com, www.prctechth.com

ISTAG, Industriestrasse 2, CH-9630 Wattwil, Switzerland, Phone (+)41 71 987 73 73, Fax (+)41 71 987 73 77
e-mail info@ist-ag.com, www.ist-ag.com