

# 1 Pt100 KG 1515 Glass Coat

The KN Series Ceramic Wire Wound PRTDs is suitable for general applications requiring temperature stability.

Main applications requiring temperature stability: Industrial resistance thermometers, especially chemical, power generation plants, and analytical equipment.

**Construction:** A platinum coil is sealed inside a high purity aluminum oxide ceramic body. Lead wires are shear force resistant and assure proper connection to extension leads and cables. An interesting feature of this type of tight construction, they can be directly exposed to moisture and acidic or alkaline liquid elements, without suffering damage.



## Types

Product		Order No.	Dimensions in mm				Self Heating	Response time			
Description	Tolerance		L	D	d	l	0 °C (K/mW)	Water: V= 0.4m/s		Air: V=3m/s	
								$t_{0.5}$	$t_{0.9}$	$t_{0.5}$	$t_{0.9}$
1Pt100 KG 1515	W0.3	32.206.961	$15^{+3}_{-0}$	1.9±0.3	0.20±0.01	10.0±0.5	0.08	0.2	0.4	5.0	15.7
	W0.15	32.206.962									
	W0.1	32.206.963									

## Technical Specification

- **Nominal resistance:** 100 Ohm @ 0 °C
- **Temperature range:**
  - W0.3 (Class B) = -196 °C to +600 °C
  - W0.15 (Class A) = -100 °C to +450 °C
  - W0.1 (Class 1/3 B) = -100 °C to +350 °C
- **Glass coat cover:** Thickness 0.35mm max.
- **Temperature coefficient:** Tc = 3850 ppm/K
- **Leads:** Palladium-gold alloy
- **Insulation resistance after assembly:** > 100 MOhm @ 25 °C
- **Measuring current:** 1 mA
- **Tolerance class:**
  - According to IEC 60751:2008
  - Other standards and narrower tolerances are available on request
- **Temperature stability:** Excellent long-term stability
- **Also available:**
  - Platinum-gold alloy
  - Different temperature coefficients (3916 ppm/K - old JIS)
  - Extension leads

The measuring point is located at 8 mm from the end of the sensor body

Sensor Technology reserves the right to make changes without notice in the specifications of this products

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