

## 1 Pt100 KN 2515

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

Applications: Industrial resistance thermometers, especially in 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.



### Models

| Description    | Tolerance IEC 60751 | Order No.  | Dimensions mm                  |          |           |          | Self Heating 0°C (K/mW) | Response time          |                  |                   |      |
|----------------|---------------------|------------|--------------------------------|----------|-----------|----------|-------------------------|------------------------|------------------|-------------------|------|
|                |                     |            | L                              | D        | d         | l        |                         | Water current V=0.4m/s |                  | Air stream V=3m/s |      |
|                |                     |            |                                |          |           |          | t <sub>0.5</sub>        | t <sub>0.9</sub>       | t <sub>0.5</sub> | t <sub>0.9</sub>  |      |
| 1Pt100 KN 2515 | W0.3                | 32.206.370 | 25 <sup>+2</sup> <sub>-0</sub> | 1.5±0.15 | 0.20±0.01 | 10.0±0.5 | 0.07                    | 0.2                    | 0.4              | 5.3               | 16.0 |
|                | W0.15               | 32.206.372 |                                |          |           |          |                         |                        |                  |                   |      |
|                | W0.1                | 32.206.374 |                                |          |           |          |                         |                        |                  |                   |      |
|                | W0.03               | 32.206.099 |                                |          |           |          |                         |                        |                  |                   |      |

### Technical Specification

|                                 |  |  |  |
|---------------------------------|--|--|--|
| <b>Nominal resistance:</b>      | 100 Ohm @ 0 °C   | <b>Insulation resistance after assembly:</b> | > 100 MOhm @ 25 °C   |
| <b>Temperature range:</b>       | W0.3 (Class B) = -196 to +660 °C<br>W0.15 (Class A) = -196 to +600 °C<br>(Heraeus exceeds IEC 60751: -100 to +450 °C)<br>W0.1 (Class 1/3 B) = -100 to +350 °C<br>W0.03 (Class 1/10 B) = -50 to +300 °C<br>(Special HST Class proportional to W0.3) | <b>Measuring current:</b>                    | 1 mA   |
| <b>Temperature coefficient:</b> | Tc = 3850 ppm/K  | <b>Tolerance class:</b>                      | - According to IEC 60751:2008<br>- Other standards and narrower tolerances are available on request  |
| <b>Leads:</b>                   | Palladium-gold alloy   | <b>Temperature stability:</b>                | Excellent long-term stability  |
|                                 |  | <b>Also available:</b>                       | - Platinum-gold alloy<br>- Different temperature coefficients (3916 ppm/K - old JIS)<br>- Extension leads<br>- Two separated coils can be embedded in one ceramic body |

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

## Heraeus Sensor Technology USA

1901 Route 130  
North Brunswick, NJ 08902  
Phone 732-940-4400 Fax 732-940-4445  
Email info.hst-us@heraeus.com  
www.hst-us.com