

## 1 Pt100 KN 1515 EGP

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<br>IEC 60751 | Order No.  | Dimensions<br>mm              |          |           |          | Self Heating<br>0°C (K/mW) | Response time             |                  |                      |      |
|--------------------|------------------------|------------|-------------------------------|----------|-----------|----------|----------------------------|---------------------------|------------------|----------------------|------|
|                    |                        |            | L                             | D        | d         | l        |                            | Water current<br>V=0.4m/s |                  | Air stream<br>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 1515 EGP | W0.3                   | 32.206.910 | 15 <sup>+2</sup> <sub>0</sub> | 1.5±0.15 | 0.27±0.01 | 10.0±0.5 | 0.08                       | 0.2                       | 0.4              | 5.0                  | 15.7 |
|                    | W0.15                  | 32.206.911 |                               |          |           |          |                            |                           |                  |                      |      |
|                    | W0.1                   | 32.206.912 |                               |          |           |          |                            |                           |                  |                      |      |

### Technical Specification

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

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

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