

## 1 Pt100 KN 0815

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 0815 | W0.3                   | 32.206.463 | 8 <sup>+2</sup> <sub>-0</sub> | 1.5±0.15 | 0.20±0.01 | 10.0±0.5 | 0.28                       | 0.2                       | 0.5              | 6.7                  | 21.8             |
|                | W0.15                  | 32.206.464 |                               |          |           |          |                            |                           |                  |                      |                  |
|                | W0.1                   | 32.206.465 |                               |          |           |          |                            |                           |                  |                      |                  |

### 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>(Heraeus exceeds IEC 60751: -100 to +450 °C)<br>W0.1 (Class 1/3 B) = -100 to +350 °C | <b>Tolerance class:</b>       | - According to IEC 60751:2008<br>- Other standards and narrower tolerances are available on request                                                                    |
| <b>Temperature coefficient:</b>                                               | Tc = 3850 ppm/K                                                                                                                                               | <b>Temperature stability:</b> | Excellent long-term stability                                                                                                                                          |
| <b>Leads:</b>                                                                 | Palladium-gold alloy                                                                                                                                          | <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 |
| <b>Insulation resistance after assembly:</b>                                  | > 100 MOhm @ 25 °C                                                                                                                                            |                               |                                                                                                                                                                        |
| <b>The measuring point is located at 8 mm from the end of the sensor body</b> |                                                                                                                                                               |                               |                                                                                                                                                                        |

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