# PW100 class F0.3 up to +600 °C with Pt wire, with optimized ESD design



Temperature sensor, ESD-optimized, class B -200 °C to +600 °C, 2.4 x 1.4 mm, 7 mm wires for cryogenic applications

Thin-film platinum ESD-optimized 100 Ohm RTD component in class A up to +600 °C, This sensor is the alternative to wire-wound sensors, It has a very stable characteristics curve and boasts very low hysteresis and an increased long-term stability

**Product Name:** PW0K1.216.7W.B.007
**Nominal resistance:** 100 Ω at 0 °C
**Operating temperature range:** -200 °C to +600 °C
**TCR:** Pt 3850 ppm/K
**Chip size/dimensions:** 2.4 x 1.4 x 1.3 mm
**Tolerance/class:** IEC 60751 F0.3 (IST AG tolerance class B)
**Connection type:** Pt-wire, Ø 0.2 mm
**Wire length:** 7 mm

**Special:** ESD optimized design (IEC/EN 61000-4-2)
**Packaging:** Blister
**Product Old code:** replaces former 101701
**Product code:** 153523

# Product details

## Platinum Sensors

Innovative Sensor Technology IST AG platinum temperature sensors provide solutions for extreme temperature applications and are designed with the highest quality materials, allowing them to operate within a wide temperature range of -200 °C to +1000 °C.  Standard IEC 60751 sensors are offered in class F0.3 (0.12 %), class F0.15 (0.06 %), F0.1 (0.04 %), and higher accuracies upon request.Our sensors are available in wireless (SMD) and wired configurations, and in sizes ranging from  0.75 mm to 10 mm (L), and 0.75 mm to 5.08 mm (W).  Standard sensors can be customized with a variety of lead wire material, insulations, length, and configurations.

With many years of experience, iST also offers development of customer-specific applications in terms of sensor technology development and consultation. As part of the standard development process, we give support at the point of implementation - this way we ensure the best sensor solution for specific applications.

More information on platinum temperature sensors

## Temperature measurement up to 600 °C in class A (PW)

The IST AG PW RTD sensor has been developed as an alternative to the traditional wire-wound sensors. The PW sensor combines the advantages of high accuracy and precision of the wire-wound sensors with the advantages of thin-film sensors that offer robustness, small dimensions and very low hysteresis at an optimal price level.

Compared to a standard thin-film sensor measuring up to +300 °C in IEC 60751 F0.15 (iST reference class A), the iST PW sensor measures with high accuracy up to IEC 60751 F0.15 (iST reference class A) within a wide operating temperature range from -200 °C to +600 °C.

Due to the special construction and stable characteristics curve, the iST PW sensor is also suitable for low temperature applications. As an additional feature, the PW sensor is available in round ceramic housing with the same dimensions as a traditional wire wound sensor, meaning easy interchangeability into existing temperature applications.

## ESD optimized design

To strenghten the stability of your assembled systems we are committed to the continued optimization and development of ESD-optimized temperature sensors.

With optimized design and new process technology we offer platinum temperature sensors with outstanding ESD resistance. The designs have been tested according to European Union Standards, the IEC/EN61000-4-2.

Thanks to a state-of-the art in-house ESD laboratory, we are able to test our sensors internally according to international standards.

Download flyer for more information.

## Quality

Consistent with the well-known, high-quality standards in Switzerland, IST AG is certified according to ISO 9001:2015 (quality) and ISO 14001:2015 (environment). Appropriate processes are part of our daily work. They are regularly audited and extended parallel to the growth of our company.

> Read more

## The online shop

| Quantity (pieces) | Price (per piece) |
|---|---|
| 10-49 | CHF 13.93 |
| 50-99 | CHF 11.06 |
| 100-150 | CHF 9.79 |

Stock: **0**