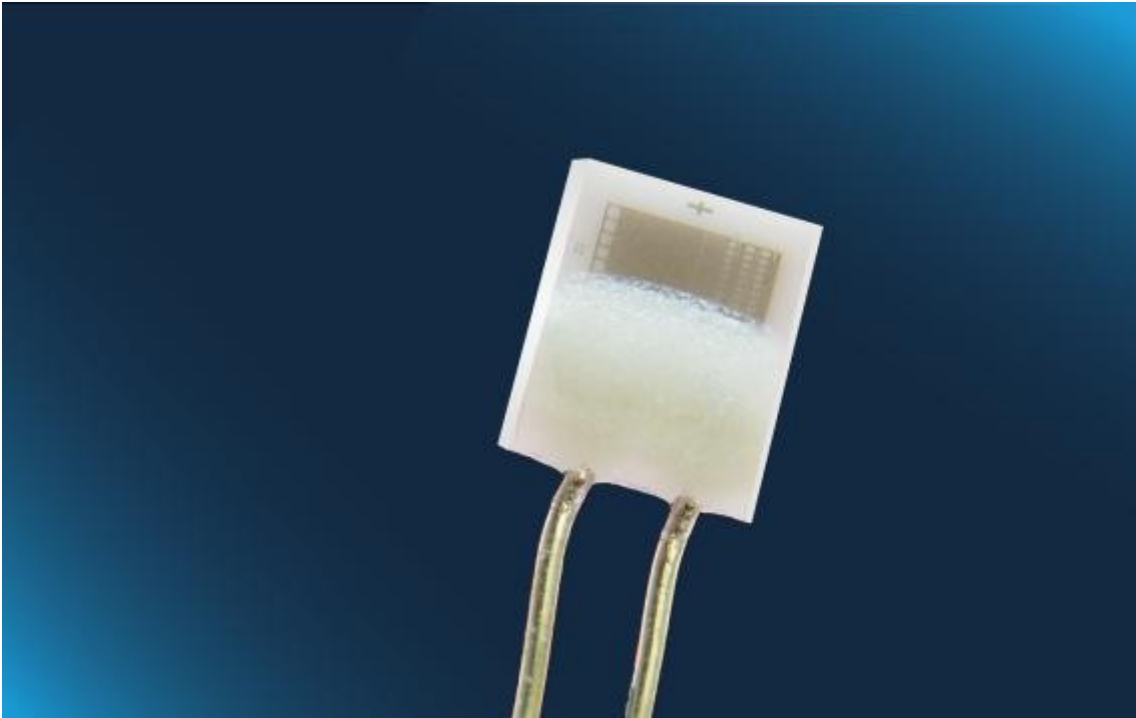


# MiniSens Pt100 class F0.1



Small thin-film platinum 100 Ohm RTD component, temperature range -200 °C to +600 °C, 1.6 x 1.2 mm, 10 mm wires

## Benefits & Characteristics

- Excellent long-term stability
- Small dimensions
- Low self-heating
- Vibration and temperature shock resistant
- Fast response time

**Product Name:** P0K1.161.6W.Y.010

**Nominal resistance:** 100  $\Omega$  at 0 °C

**Operating temperature range:** -200 °C to +600 °C

**TCR:** Pt 3850 ppm/K

**Chip size/dimensions:** 1.6 x 1.2 x 0.6 mm

**Tolerance/class:** IEC 60751 F0.1 (IST tolerance class Y)

**Connection type:** Pt-wire,  $\varnothing$  0.2 mm

**Wire length:** 10 mm

**Packaging:** Blister

**Product Old code:** 010.00066

**Product code:** 100139

## 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 AG also offers development of customer-specific applications in terms of sensor technology development and consultation. As part of the standard development process, IST AG offers support at the point of implementation - this way we ensure the best sensor solution for specific applications.

[More information on platinum temperature sensors](#)

### Small dimensions

IST AG offers various sensor solutions for applications with limited space requirements.

#### MiniSens

The IST AG MiniSens offers the smallest footprint with dimensions of only 1.2 mm x 1.6 mm making the sensor an optimal solution for limited space applications. The MiniSens is available with accuracies of up to IEC 60751 F0.1 (IST AG reference class Y) and with long directly welded wires. The sensor can be used in applications with an operation temperature range of up to +600 °C.

The MiniSens is also offered with a metallized backside enabling optimal thermal coupling.

## **SlimSens**

The IST AG SlimSens sensor is specially developed for applications requiring sensors fitted into tubes with very small diameters. The SlimSens measures 0.8 mm x3 mm and is the optimal solution for applications with tube diameters from 1 mm. The SlimSens is available with accuracies of up to IEC 60751 F0.1 (IST AG reference class Y) and with long directly welded wires within various ohmic resistances. This Pt temperature sensor can be used in applications with an operation temperature range of up to +600 °C.

## **Excellent thermal coupling and fast response time**

### **Metallized backside (M)**

To increase accuracy and response time, IST AG offers a standard RTD sensor with a metallized backside allowing the sensor to be soldered onto a metallic surface and thereby increasing the thermal coupling.

IST AG not only offers sensors with metallized backsides for soldering but also constructions like soldered sensors to tubes, in caps, on metal discs and onto various metals.

### **RealProbeTemp (RPT)**

The RealProbeTemp is a pre-assembled stainless steel probe for the simplified manufacturing of temperature probes. The RPT provides an outstanding response time. The construction of the RealProbeTemp allows a minimized immersion depth (e.g. liquids at a depth of 10 mm or in some cases slightly less). Therefore it is an optimal solution in applications with limited space and pipe diameter.

Especially for applications where reduced space and large temperature gradients between surroundings and the measurement medium poses a challenge, the RealProbeTemp is the ideal solution for an accurate measurement.

The RealProbeTemp can act as a standalone probe assembly or as a sub-assembly inserted to minimize the fabrication process and materials of larger or more complex probe assemblies. This results in reduced manufacturing costs and enhanced performance of the finished assembly.

## 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)
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10-49	CHF 8.97
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50-99	CHF 7.12
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100-150	CHF 6.30
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Stock: **349**