



RTD TEMPERATURE SENSORS FOR PROBES

Resistance Temperature Detectors

Our RTD platinum temperature sensors are extremely robust, highly accurate, low drift, low self-heating and feature a fast response time. Our nickel sensor components offer excellent long-term stability and are easily replaceable.

Accurate, reliable and easy to integrate

- Thinnest RTD in the world only 0.5 mm (0.019") wide
- Very fast response time 0.3 s
- RTD PT sensors from -200°C to +1000°C
- Class A F0.15 valid in the -200°C – +600°C range (PW Series)
- Ultra-slim Platinum Temperature sensor 0.5mm x 3.5mm—fits into ID Ø 0.8mm (0.0315")
- Resistance values at 0°C from 50 Ohm (Ω) to 10.000 Ohm (Ω)
- Custom wire configurations available (extended bare, insulated or directly welded wires)
- Only platinum temperature sensor in the world ESCC (EU Space Components) certified



Innovative Sensor Technology IST AG

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www.ist-ag.com | MADE IN SWITZERLAND

PROVIDING SWISS TECHNOLOGY WORLDWIDE

At IST we offer a fast design-in-process and ideal sensor operation conditions for the development of your application. The choice of materials, technologies, size, form and capabilities of our sensors is extremely vast. Our experts help you find the right ingredients to build the ideal sensor to suit your application.



Custom designs for all your applications. Speed up your product design phase by ordering application-specific sensor components pre-assembled for easy system integration. Our IST experts will help you find the right sensor solution to fit your requirements.

TELL US WHAT YOU'RE LOOKING FOR AND WE'LL CUSTOMIZE THE RIGHT SENSOR FOR YOUR APPLICATION



Concept
Material choice
Technology choice
Design of layout



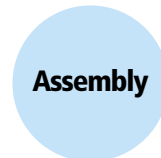
Alumina • Zirconia • Sapphire • Steel
Copper • Polyimide • Aluminum nitride
Silicon wafer • Glass



Metal thick film (Pt, Ag, Au & alloys)
Dielectric thick film (glass or organic polymers)
Metal thin film (Pt, Rh, Ti, Ni, Cr, Ag, Au, Al, W, Mo & alloys)
Dielectric thin film (SiO₂, Si₃N₄, Ta₂O₅, polyimide)



Photolithography
Laser trimming
Dry and wet etching



Dicing • Bonding • Glass coating • Soldering
Electric final testing • Optical final testing
Packaging • Additional assembly

Offering custom sensor solutions for every application.

Metallized backside (M)



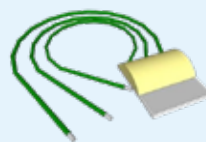
Invert welded & bent wires (U)



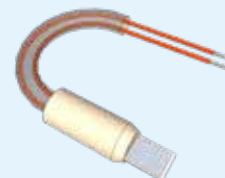
Direct welded insulated wires



Extended 2- to 4- wires



Shrink Tube



Connectors

