



YAGEO
GROUP
YAGEO Nexensos

THE EXPERT FOR MAXIMUM SENSING.

As a global market and technology leader in platinum thin film elements and a recognized expert in highly reliable temperature sensing, we deliver tailored solutions for a wide range of applications. With a strong customer focus and a worldwide presence, we are a trusted partner across the globe. Our large-scale production capacities, benchmark quality standards and IATF certification set us apart in the industry.

Key Benefits:

- Meeting highest quality standards, including automotive
- First in thin film technology and more than 100 years experience in Pt temperature sensors
- From -200 °C to +1.000 °C
- Combining market-leading precision with your individual needs



Temperature
Sensor Elements



Sensor
Assemblies



Heaters



Individual
Development

Wired Elements



Highlights: LS – Cost Option for Temperature Detection up to 150 °C, Pb-free – Ensure Future RoHS Conformity

- **Types:** Cryo-, Low-, Medium- and High Temperature Sensor
- **Covered Temperature Range:** -196 °C to +1000 °C
- **Tolerance Class:** F 0.1 (1/3 B), F 0.15 (A), F 0.3 (B) according to DIN EN 60751
- **Standard Resistance:** Pt100, Pt200, Pt500, Pt1000
- **Applications:** E-Motor, E-Charging, Exhaust Gas Treatment, Home Appliance, Health and Analytic Equipment, Industrial Automation and Process Control, Power Generation, HVAC
- **Certifications:** PPAP possible, AEC-Q200 available, Options for Customization

SMD Elements



Highlights: SMD Sinter Chip – Reliable Protection for Wide-Band-Gap Power Electronics, nominated for AMA Innovation Award 2025

- **Types:** SMD and SMD FC, Sinterable SMD-SC, SMD-SC HV, Option for thinner SMDs
- **Covered Temperature Range:** -50 °C to +200 °C
- **Tolerance Class:** F 0.3 (B), F 0.6 (2B) according to DIN EN 60751
- **Standard Resistance:** Pt100, Pt1000
- **Applications:** Power Electronics, Charging Sockets, Heat and Cold Meters (HVAC), Data Logger, Robotics, Energy Management
- **Certifications:** AEC-Q200 standards, PPAP possible, Options for Customization

RTD Probes & Sensor Assemblies



Highlights: RT – Ring Terminal tip and TH – Thread Sensor for demanding Applications

- **Types:** Temperature Sensor Probes based on PT and NTC Technology
- **Covered Temperature Range:** -95 °C to +500 °C
- **Standard Designs:** Cable Extensions, Cable Sensors with PTFE or Metal sleeve Housings, Screw-in and Surface Sensors
- **Customization Options:** Housing, Material, Resistance, Connector
- **Applications:** Automotive, Charging Infrastructure, HVAC, Analytic Equipment, Process
- **Certifications:** Automotive requirements e.g. IMDS, PPAP on request

