

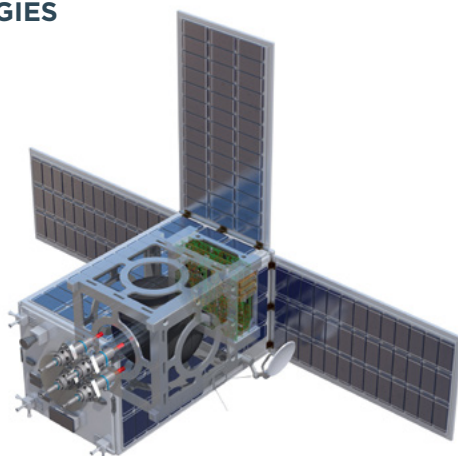


# SURFACE MOUNT TEMPERATURE SENSORS FOR SATELLITES, SPACE AND HIGH RELIABILITY APPLICATIONS

Our surface mount temperature sensors are designed for diverse space applications, with NTC thermistor probes covering  $-60^{\circ}\text{C}$  to  $+160^{\circ}\text{C}$  and RTD platinum probes ranging from  $-170^{\circ}\text{C}$  to  $+160^{\circ}\text{C}$ , providing reliable performance under extreme conditions and operational efficiency. This wide temperature range and various Resistance-Temperature (R-T) curves provides a high level of compatibility across different electronics system. With over 20 years of space flight heritage and European Space Agency (ESA) qualification, we offer parts listed on the ESA Qualified Parts List (QPL), and flight-qualified parts that meet ESA's performance and reliability standards. All our sensors are designed, manufactured, tested, and inspected on the same production line, confirming consistent quality across the whole portfolio. These sensors are designed for direct mounting on various surfaces, enabling contact that provides excellent heat transfer and accurate temperature readings. Various wire lengths and insulation options are also available, making them versatile for different designs. Our sensors are suited for both traditional and LEO satellite markets, designed for easy installation, various wire lengths, and provides excellent heat transfer delivering high reliability performance.

## SENSOR TECHNOLOGIES

🌡️ Temperature






## APPLICATIONS

- Temperature Control and Monitoring
- Temperature Compensation
- Space Solar Panels
- Payload Equipment
- Guidance and Navigation Systems
- Control and Computer Systems
- Antennas
- Avionics

## TE ADVANTAGE

- Compliance to ESA standards
- Parts on ESA QPL
- Wide temperature range  $-170^{\circ}\text{C}$  to  $+160^{\circ}\text{C}$
- Various Resistance-Temperature curves
- Various Wire Lengths and Insulation Types
- Sensors for LEO satellites

SURFACE MOUNT TEMPERATURE SENSORS FOR SATELLITES AND SPACE

Sensor Model	Application	Key product features	
NTC Thermistor Surface Mount Sensor	ESA Satellite Platform and Payload Applications	<ul style="list-style-type: none"><li>• ESA Qualified</li><li>• Space Flight Heritage (20+ years)</li><li>• Easy Mounting</li><li>• Wide Temperature Range</li><li>• Various R-T curves</li></ul>	
Platinum RTD Surface Mount Sensor	Low Temperature ESA Satellite Platform and Payload Applications	<ul style="list-style-type: none"><li>• Space Flight Heritage</li><li>• Easy Mounting</li><li>• Low Temperature Applications</li><li>• Various R-T curves</li></ul>	
NTC Thermistor Surface Mount Sensor New Space	New Space Satellite Platform and Payload Applications	<ul style="list-style-type: none"><li>• Low-cost version of ESA Qualified sensor for New Space Applications.</li><li>• High Reliability, manufactured on same production line using same processes, equipment and personnel as ESA Qualified Sensor.</li><li>• Easy Mounting</li><li>• Wide Temperature Range</li><li>• Various R-T curves</li></ul>	

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