



Pt-1000 Class A, Back-of-Module Temperature Sensor

MODEL NO: HS-MTS009



PRODUCT OVERVIEW

The HS-MTS009 module temperature sensor is a highly accurate device which measures the temperature back of the solar panels. It works in degrees Celsius (°C) by using a sensor which is PT1000.

The HS-MTS009 is the next generation of Heysense back-of-module temperature sensors designed for improved (PV) module performance assessment and soiling. The probe head has been designed for easier installation. It has a smaller footprint that is optimized to reduce back-of-module shading and eliminate surface cooling.

The HS-MTS009 comes with a consists of a Pt-1000 Class A platinum resistance thermometer (PRT) enclosed in a low slim profile, low-mass aluminum disk.



Safety Instructions

The installation and assembly of electrical equipment must be carried out by electrically qualified persons. The sensor may not be used with equipment whose direct or indirect purpose is to prevent human death or injury, or whose operation poses a risk to humans, animals or property.



Electrical Connection

The sensors are designed for safety extra-low voltage (SELV) operation. The cable shield shall be connected to the PE during installation.

WARNING: Connecting the supply voltage to the signal lines will damage the device.

IEC 61724-1:2021 COMPLIANT MODULE TEMPERATURE SENSOR

- **Measurement Uncertainty:** Meets Class A sensor requirement for back-of-module measurement.
- **Data Requirements:** Supports output formats compatible with SCADA and data loggers.
- **Soiling Loss Monitoring:** Enables correlation with soiling sensors for accurate PR calculation.
- **Durability:** Designed for continuous outdoor operation under varying environmental conditions.

Parameters	Specifications
Power Supply	12 to 28 V DC
Signal Output	RS 485 / 4-20 mA
Range	-50°C to + 200°C
Accuracy	± 0.15°C (Class A)
Response Time	< 2 Sec
Operating Temperature	-50°- 200°C @20% - 90% RH
Cable length	10 m



Power Consumption	< 0.4 Watt
Sensor Element	Class A RTD PT100/PT1000 as per DIN 60751
Weight	Approx. 200 g
Surface Mount Adhesive	Attached
Sensor Housing	IP67



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