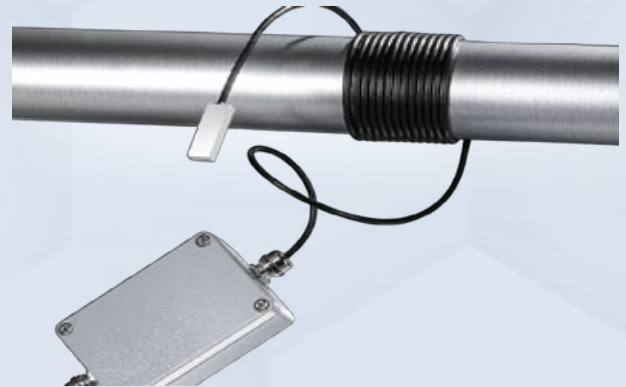




Pt-1000 Class A, Back-of-Module Temperature Sensor

MODEL: HS-MTS0012
HS-MTS0010



PRODUCT OVERVIEW

The HS-MTS0012 / HS-MTS0010 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-MTS0012 / HS-MTS0010 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-MTS0012 / HS-MTS0010 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.

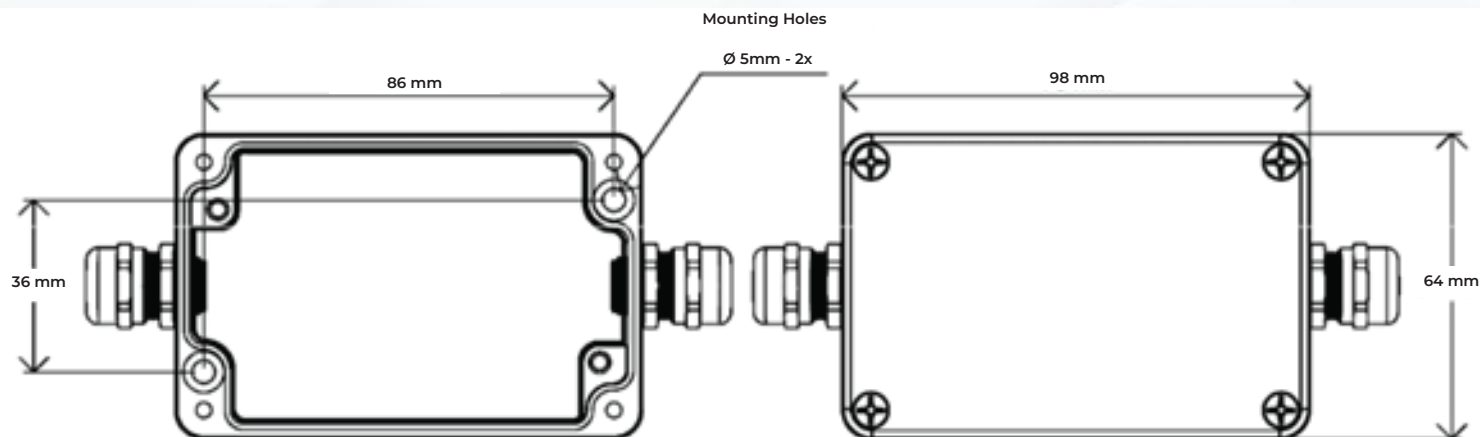
WARNING: Connecting the supply voltage to the signal lines will damage the device.

PRECISE TRACKING OF THE MODULE TEMPERATURE ON PV SYSTEMS

Measure the temperature of your PV module with utmost precision and minimal drift to assess your system's productivity. Our module temperature sensors are equipped with a sturdy aluminium housing and robust, weatherproof cabling. Thanks to the use of premium components, the sensors achieve high accuracy and are ideal for use in industrial environments and on-site usage (e.g. PV module temperature). The sensor element's compact design also makes it perfect for measuring temperature of bifacial modules.

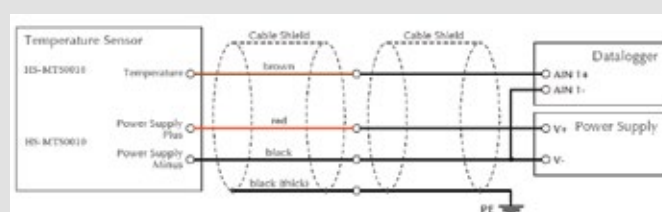
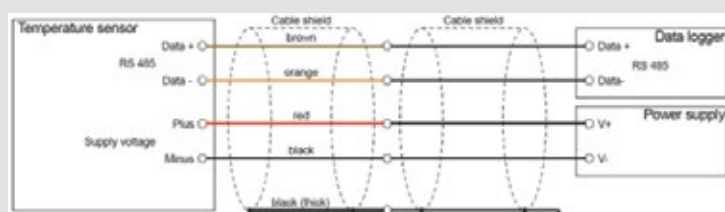
BENEFITS & FEATURES

- › Sensors comply with all IEC 61724-1 requirements, including for bifacial modules
- › Very small sensor element; covers less than 2% in full size M6 or half-cut M12 cells
- › Adhesive's thermal conductivity > 500/m²/K
- › Pt1000 precision sensor element as per IEC 60751 Class A
- › Sensor element, including extremely adhesive tape for long-term usage
- › Highly sturdy aluminium housing
- › High-precision measuring electronics including calibration certificate for all active models
- › Developed and manufactured in Germany



RS485 / MODBUS

Analog Output (4-20 mA)



Specifications	Parameters
Power Supply	10 to 28 V DC
Signal Output	RS485
Range	-50 to + 100°C
Accuracy	Class A ($\pm (0.15 + 0.002t)^\circ\text{C}$)
Sensor Housing	IP65
Case Material, Case Dimension / Protection Level	-50°- 100°@ 20% - 90% RH
Cable length	Length: 3 m, PUR coated, shielded (LiHC11Y, 2 x 0.25 mm ²)
Power Consumption	0.5 Watt
Load / Current	max. 400 Ω / max. 25 mA
Weight	Approx. 500 g
Connection Cable	Length: 3 m, PUR coated, shielded (LiYC11Y, 4 x 0.14 mm ²)
Storage Condition	-50°- 100°@ 20% - 90% RH
Resolution	$\pm 0.01^\circ\text{C}$

SENSOR TYPES

Type	Accuracy	Output
MTS0010	Class A ($\pm (0.15 + 0.002t)^\circ\text{C}$)	Analog Output (4-20 mA)
MTS0012	Class A ($\pm (0.15 + 0.002t)^\circ\text{C}$)	RS485 / MODBUS



TECHNICAL DATA

Sensor element	Pt1000 class A as per EN 60751
Sensor housing	Self-adhesive aluminum block, 35 mm x 12 mm x 6 mm
Sensor cable (Pt1000)	PUR sheath, shielded (LiYC11Y, 2 x 0.25 mm ²), length: 3 m
Case material	Powder coated aluminium
Operating temperature	-50 to +100°C
Customs tariff number	90 25 19 00
For further technical information please see also the instruction manual.	

Temperature Sensors

MTS0010



Class A ($\pm (0.15 + 0.002t)^{\circ}\text{C}$)

MTS0012



Class A ($\pm (0.15 + 0.002t)^{\circ}\text{C}$)



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