# INJECT SOLAR

# DATASHEET- MODULE TEMPERATURE SENSOR



| Document Name | Module Temperature Sensor/Transmitter |
|---|---|
| Hardware Name | Temperature Sensor (MSPT) |
| Document Number & Revision | IS-HW-SR-MTS-DS-001, Rev-0 (2 pages) |
| Document Type | Public |
| Document Release | 31-Dec-2022 |

## 1. Introduction

The module temperature sensor is used by PV plant operators to know the temperature of the modules installed in the array. The module temperature sensor converts this reading into a Current or voltage signal. This signal is sent back to the monitoring device. As a system operator, it's important to know the system performance. The module temperature sensor will help to enhance kWh performance by ensuring reliable access to the all-necessary data.

Features

- ✓ Fast, stable and accurate
- ✓ IP65 enclosure excellent long-term stability
- ✓ Onsite two-point calibration
- ✓ Loop powered

Applications

- ✓ PV module surface temperature measurement
- ✓ Weather monitoring systems

## 2. Specification of Sensor

| Parameters | Specifications |
|---|---|
| Measuring Range | 0 to 100°C |
| Accuracy | ±0.3°C |
| Supply Voltage | 12 to 24VDC |
| Output | MSPT-100　　　: 4 to 20mA<br>MSPT-100V　　: 0 to 5VDC<br>MSPT-100V1　　: 0 to 10VDC<br>　MSPT-100MOD: RS-485 MODBUS |
| Weight | Approx 150grms |
| Sensor Type | Pt100 (100Ω @ °C), thin film Class A |
| Sensor Housing | Pt100 element encapsulated in a silicone rubber patch |
| Sensor Cable Length | 3meters |
| Patch dimensions: | Length 38mm x Width 13mm x Height 8mm |

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