



INJECT RENEWABLES

DATASHEET- MODULE TEMPERATURE SENSOR



Document Name	Module Temperature Sensor/Transmitter
Hardware Name	Temperature Sensor (MSPT)
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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 MSPT-100V : 0 to 5VDC MSPT-100V1 : 0 to 10VDC 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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