



PV Module Temperature Sensor with Digital Modbus RS-485 Output

CLASS A ACCURACY AT ANY CABLE LENGTH



Overview

MBMet 800 series offers best-in-class smart transducer for surface temperature measurement. The sensor comes integrated with a stable aluminum cuboid and Teflon insulated cable. These sensors are compact and easy-to-install. The MBMet 803 offers digital RS485 communication making temperature measurements highly accurate and reliable.

Benefits and Features

- ▶ Best in class measurement accuracy and technology
- ▶ Measures temperature across a wide range : -50° to +110°C
- ▶ Isolated Modbus RTU RS-485 digital serial communications
- ▶ With high temperature adhesive
- ▶ Precision RTD Class-A sensing element
- ▶ Sensor standard compliant IEC-61724-1 (2017-03) class A

Technical Description

Model	MBMet-803
Measurement Range	-40° to +110°C
Temperature Accuracy	±0.2°C
Temperature Stability	<0.1°C per year
Sensor Element Type	RTD Class A
Sensor Cable-Length	Silicon insulated cable – 3 meters
Sensor Housing	Self-Adhesive Aluminum
Self-Adhesive Tape	High Temperature Acrylic Adhesive Tape. Operating Temperature tolerance up to 149°C.

Sensor Transmitter Housing	Powder Coated-Cast Aluminum, IP67
Sensor Transmitter Cable	Length : 5 meters (default) PVC insulated
Sensor Transmitter Output	Serial RS-485 (Isolation : 1 KVDC/1 sec and Transient & Burst Immunity : ±0.5KV)
Transmitter Communication	Modbus RTU
Power supply	12 to 24 VDC
Operating Atmospheric Temperature	-10°C to +70°C
Operating Ambient Humidity	0.1 to 99.9% RH
Sensor Standard	Meets IEC-61724-1 (2017-03) Class A

Ordering Code

Model	Series	Type	Sensor Extension Cable Length
MBMet	803	SF	5 meters (Default) 10 meters 20 meters 30 meters

For example : MBMet- 803-SF Cable Length : 5 meters

See also

- **MBMet-801** PV Module Temperature Sensors RTD PT100/PT1000 Output
- **MBMet-802** PV Module Temperature Sensor with 4 to 20mA Output
- **MBMet-901** Atmospheric Air Temperature Sensor with 4 to 20mA Output
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