



PV Module Temperature Sensor

Class A accuracy at any cable length

OVERVIEW

MBMet 800 series offers best-in-class smart transducer for PV Module temperature measurement. The sensor comes integrated with a stable aluminum cuboid and Silicon cable. These sensors are compact and easy-to-install. MBMet 800 offers three variants :

1. MBMet 801 in PT100/PT1000
2. MBMet 802 in 4-20mA Output
3. MBMet 803 in RS485 Modbus Output



MBMet 801 series

BENEFITS AND FEATURES

- ▶ Best in class measurement accuracy and technology
- ▶ Measures temperature across a wide range : -40° to +110°C
- ▶ Precision RTD Class-A sensing element
- ▶ Isolated Modbus RTU RS-485 digital serial communications (For series 803)
- ▶ With high temperature adhesive
- ▶ Sensor standard compliant IEC-61724-1 (2017-03) class A (For series 802 and 803)



MBMet 802/803 series

TECHNICAL DESCRIPTION

Model/Parameters	MBMet-801A	MBMet-801B	MBMet-802	MBMet-803
Communication Output	PT100	PT1000	4-20mA	RS-485 Modbus
Sensor Element Type	RTD Class A	RTD Class A	RTD Class A	RTD Class A
Measurement Performance				
Measuring Range	-40°C to +110°C	-40°C to +110°C	-40°C to +110°C	-40°C to +110°C
Accuracy	Class A	Class A	±0.2°C	±0.2°C
Temperature Stability	<0.1°C per year	<0.1°C per year	<0.1°C per year	<0.1°C per year
Electrical Specifications				
Input Voltage	NA	NA	Self-loop powered (12 to 24 VDC)	12 to 24 VDC
Power Consumption	NA	NA	20mA max @12/24VDC	30mA @12VDC



TECHNICAL DESCRIPTION (Cont.)

Model/Parameters	MBMet-801A	MBMet-801B	MBMet-802	MBMet-803
General Specifications				
Sensor Operating Temperature	NA	NA	-10°C to +100°C	-10°C to +100°C
Operating Ambient Humidity (Non-condensing)	NA	NA	0.1 to 99.9% RH	0.1 to 99.9% RH
Sensor Transmitter Cable	NA	NA	PVC insulated	PVC insulated
Sensor Cable-Length	Silicon cable – 3 meters	Silicon cable – 3 meters	Silicon cable – 3 meters	Silicon cable – 3 meters
Sensor Housing	Self-Adhesive Aluminum	Self-Adhesive Aluminum	Self-Adhesive Aluminum	Self-Adhesive Aluminum
Sensor Transmitter	NA	NA	Powder Coated-Cast Aluminum, IP67	Powder Coated-Cast Aluminum, IP67
Sensor Transmitter Dimension	NA	NA	64 × 58 × 34 mm (L×W×H)	98 × 64 × 36 mm (L×W×H)
Weight (packed)	72g (with standard 3 meters cable)	72g (with standard 3 meters cable)	518g (with standard 5 meters cable)	754g (with standard 5 meters cable)

ORDERING STRING

Model	Series	Cable Length	
MBMet			
	801A		PT100
	801B		PT1000
	802		4-20mA
	803		RS-485 Modbus
		3000	Units : mm (default for 801A and 801B series)
		5000	Units : mm (default for 802 and 803 series)
		Units : mm (on request)

For example : MBMet-803-5000

Parameter : PV Module Temperature Sensor

Output : RS-485 Modbus, Cable Length : 5 meters

SEE ALSO

- **MBMet 100** Wind Speed Sensor
- **MBMet 110** Wind Direction Sensor
- **MBMet 120** Wind Speed & Direction Sensor
- **MBMet 140** Ultrasonic Wind Speed & Direction Sensor
- **MBMet 901** Air Temperature, Humidity & Pressure Sensor
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****Specifications are subject to change without notice.**

