



M. B. Control & Systems Pvt. Ltd.

CIN : U67120WB1980PTC033012 | PAN : AABCM7980K | GST NO. : 19AABCM7980K1ZU

Registered & Corporate Office

31/1, Ahiripukur Road, Kolkata, West Bengal 700019 | +91 98313 30473, 98312 06454

+91 033 2287 0445 | enquiry@mbcontrol.com | www.mbcontrol.com



PV Module Temperature Transducer Installation Manual (PT100/PT1000)

Model:

MBMet-801A (PT100)

MBMet-801B (PT1000)

Document Number: M4 010 010 040 01

Contents

Contents	1
1. PV Module Temperature Sensor - Parts	2
2. Installation of PV Module Sensor	2
3. PV Temperature Transducer Specifications:	3

For service support call us on +91 8981051011 or mail us in service@mbcontrol.com



1. PV Module Temperature Sensor - Parts

Module Temperature Sensor PT100/PT1000 is shipped with the following parts

- A. PT100/PT1000 Sensor Unit (with three meters cable and dual sided temperature conductive adhesive tape) – 1 No
- B. Sensor cable holding cable cradles – 3 Nos
- C. Cable Tie (CT-100) – 3 Nos

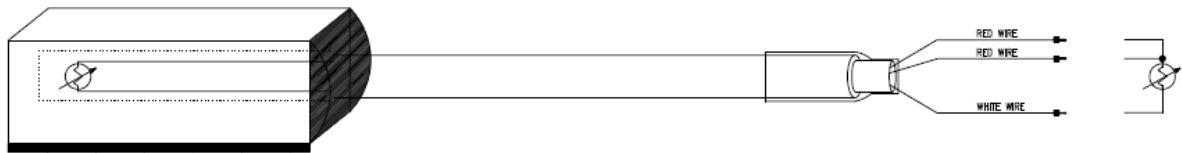


Fig 1.1 –PV Module Surface Temperature Sensor (PT100/PT1000) 3 Wire (Standard)

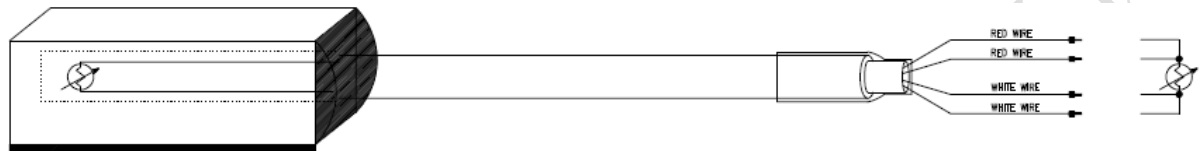


Fig 1.2 –PV Module Surface Temperature Sensor (PT100/PT1000) 4 Wire (On special client request)

2. Installation of PV Module Sensor

Selection of the place of mounting the sensor is important factor for the correct temperature measurement of the photo-voltaic module.

- i) The sensor is to be pasted to the back side of the PV Module in the center position of the panel. Remove the upper oily paper from the sensor. This will expose the sticky part which will stick to the solar panel. Care is to be taken so that the sensor does not fall in between two cells. It should be at the center of the centermost cell of the panel as shown in the fig 2.1.

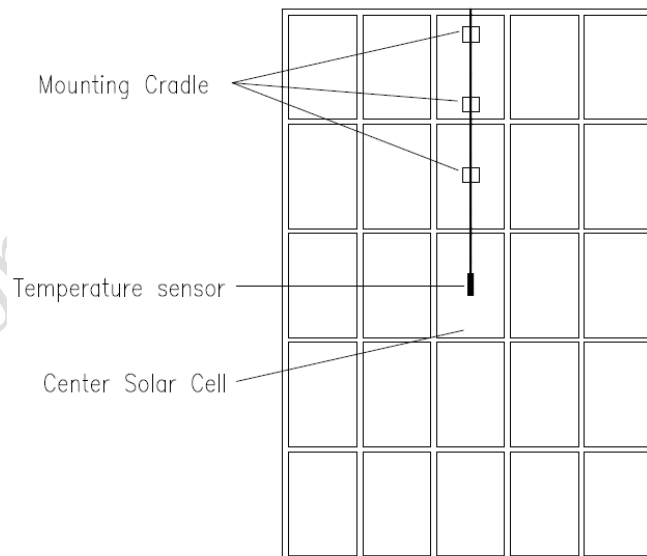


Fig 2.1 – Position of sensor installation

- ii) Use the three cable cradles with cable ties to hold the sensor cable in proper position.

3. PV Temperature Transducer Specifications:

Model	MBMet-801	
Sensor Type	-A (PT100)	-B (PT1000)
Sensor Element Type	RTD Class A	
Measurement Range	-40° to +110°C	
Temperature Accuracy	Class-A	
Temperature Stability	<0.1°C per year	
Sensor Cable-Length	Silicone cable – 3 meters	
Sensor Housing	Self-Adhesive Aluminum	
Self-Adhesive Tape	High temperature conductive acrylic adhesive Tape. Operating temperature tolerance up to 149°C.	
Sensor Standard	Meets IEC-61724-1 (2017-03) Class A	