

TPC LED-485




ver.0.1



PRODUCT	TPC-485 labelled with LM 61	TPC-485 labelled with PT100
Comunication	DATA CONVERTER FROM OUR SILICON TEMPERATURE SENSOR TO RS485	DATA CONVERTER FROM ANY PTC TO RS485
Reference Standards	REFERENCE STANDARD IEC 60751	
Application	<ul style="list-style-type: none"> • it is the right completion for those who use the thermopile pyranometer • 2 input channels for temperature measurements (e.g. PV cell + Environment) • Added measurement points for large PV systems 	
Datalogger compatibility	Smartlogger 3000, Sungrow, Ermes, Higecco, Envolv and many others	
Measure range	Sensor1 -30 ÷ +85 °C toll. ± 3 °C	Sensor1 -40 ÷ +110 °C toll. ± 0.2 °C
	Sensor2 -30 ÷ +85 °C toll. ± 3 °C	Sensor2 -30 ÷ +110 °C toll. ± 0.2 °C
Calibration	Manufacturer	Every TPC-485 labelled with PT100 is factory calibrated with 2 points, using precision reference resistors.
Risolution	2.1 °C	0.1 °C
Inputs	TPC silicon sensor	Any 2-3-4 wire PT100 or PT1000

Readings	<table border="1"> <thead> <tr> <th>Address</th> <th>Format</th> </tr> </thead> <tbody> <tr> <td>Sensor 1 Temp.: 257</td> <td>1° PT100/1000 Temp 0.1°C</td> </tr> <tr> <td>Sensor2 Temp.: 258</td> <td>2° PT100/1000 Temp 0.1°C</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td colspan="2">For other values and states, refer to the Instruction Manual</td> </tr> </tbody> </table>	Address	Format	Sensor 1 Temp.: 257	1° PT100/1000 Temp 0.1°C	Sensor2 Temp.: 258	2° PT100/1000 Temp 0.1°C			For other values and states, refer to the Instruction Manual	
	Address	Format									
	Sensor 1 Temp.: 257	1° PT100/1000 Temp 0.1°C									
	Sensor2 Temp.: 258	2° PT100/1000 Temp 0.1°C									
For other values and states, refer to the Instruction Manual											
Galvanically isolated from the power supply											
Power supply	8 ÷ 30 Vdc, consumption <60mA Protected against reverse polarity and overvoltage										
Working temperature range	-30 ÷ +85 °C										
Working humidity range	0 ÷ 95% RH										
Protection grade	IP65										
Connectors	Sensors INPUT M12 8 pin female (3 way conn. optional) data OUTPUT M8 4 pin male										
Dimension	97x64x34 mm										
Package material	Aluminum										
Weight	200 gr										

TPC-485 LED Diagnostics

Color Sequence Explanation for SM2 LED	 Blue – (Power Supply) – 3s Pulse
	 Red – (RS 485) – Pulsating when signal are transmitted from Master
	 Green – (RS 485) – Pulsating when are matching speed, parity & node