

# PMU Residential

The PMU Residential is a low cost monitoring and control solution designed for the residential home owner in mind. It is the gateway to our Solarcloud monitoring portal which lets you view the real time PV system performance and create regular performance reports which can be sent via email to the home owner. The graphical user interface makes configuration and system commissioning simple whilst allowing the possibility of grid feed-in management such as power limitation. The addition of a digital output port allows you to control external loads or devices to allow you to better manage your energy production and consumption.

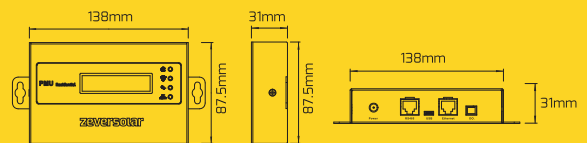


WiFi  
Optional

## Features

- System monitoring via the Solarcloud Portal
- Integrated web server
- Communicates with up to 5 inverters
- Standard RS485 interface
- Remote monitoring via Ethernet or WiFi
- Power Management Capability
- Integrated Multi-function switch/relay
- 5 days of storage

## Technical data



Model	PMU Residential
<b>Electrical Data</b>	
Power requirements	DC 12V/300mA
Max. Power consumption	1.5W/2.5W (with WiFi)
Power Supply	Self-powered <sup>1)</sup> /Power Adapter Optional
<b>User Interface</b>	
Digital output	1 x Standard
Digital input	No
Ethernet 10/100 Mbit/s	1 x Standard
WiFi (2.4G 802.11 b/g/n)	1 x Optional
4-wire RS485 (RJ45)	1 x Standard
Micro USB	1 x Standard
LCD	16 x 2 characters
LED	x 4
<b>Communication range</b>	
RS485	1000 m
Ethernet	100 m
<b>Mechanical data</b>	
Dimensions (W x H x D) [mm]	138 x 87.5 x 31
Weight	260g
Installation	Wall, Indoor
<b>Environmental conditions</b>	
Operation	-10°C to +60°C
Storage and shipment	-30°C to +80°C
Relative air humidity	5% to 95%, non-condensing
Protection class	IP20
<b>General data</b>	
Solarcloud Support	Yes
Integrated web servers	Yes
Multi-Language	EN, DE
Certificates and approvals	CE
<b>Feature</b>	
Number of connected inverters	Max.5
Inverter fault alarm output	Yes
Multi-Function Switch	Yes
Active Power Limit <sup>2)</sup>	Yes
Storage	5 days buffer for Cloud
Power management <sup>2)</sup>	No
Firmware update	Ethernet/WiFi (opt)
SensorBox Support	No

1) Communication cable length between inverter and PMU should not exceed 20m  
2) Available only for selected country code settings

As of January, 2015 / Technical data is subject to revisions.

# PMU Commercial

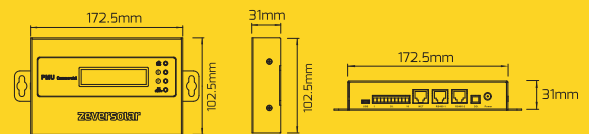
The PMU commercial is a monitoring and control solution specifically designed for large PV systems. It is the gateway to our Solarcloud monitoring portal which lets you view the real time PV system performance and create regular performance reports which can be sent via email to the plant operator. The graphical user interface makes configuration and system commissioning simple whilst allowing the possibility of grid feed-in management such as power limitation and power factor control. A Sensor Box can also be integrated thereby allowing you to view in real time, the on-site weather conditions which makes the PMU a complete monitoring package.



## Features

- System monitoring via the Solarcloud Portal
- Onsite weather monitoring – Irradiation, Temperature, Wind Speed
- Integrated web server
- Communicates with up to 50 inverters
- Standard RS485 interface
- Remote monitoring via Ethernet
- Power Management Capability such as BDEW and EEG support
- 1 GB of data storage

## Technical data



Model	PMU Commercial
<b>Electrical Data</b>	
Power requirements	DC 12V/300mA
Max. Power consumption	2.5W
Power Supply	Power Adapter
<b>User Interface</b>	
Digital output	1 x Standard
Digital input	4 x Standard
Ethernet 10/100 Mbit/s	1 x Standard
WiFi (2.4G 802.11 b/g/n)	No
4-wire RS485 (RJ45)	2 x Standard
Micro USB	1 x Standard
LCD	16 x 2 characters
LED	x 4
<b>Communication range</b>	
RS485	1000 m
Ethernet	100 m
<b>Mechanical data</b>	
Dimensions (W x H x D) [mm]	172.5 x 102.5 x 31
Weight	350g
Installation	Wall, Indoor
<b>Environmental conditions</b>	
Operation	-10°C to +60°C
Storage and shipment	-30°C to +80°C
Relative air humidity	5% to 95%, non-condensing
Protection class	IP20
<b>General data</b>	
Solarcloud Support	Yes
Integrated web servers	Yes
Multi-Language	EN, DE
Certificates and approvals	CE
<b>Feature</b>	
Number of connected inverters	Max.50
Inverter fault alarm output	Yes
Multi-Function Switch	Yes
Active Power Limit <sup>1)</sup>	Yes
Storage	1GB
Power management <sup>1)</sup>	Yes
Firmware update	Ethernet
SensorBox Support <sup>2)</sup>	Yes

1) Available only for selected country code settings  
2) Sensor box not included with PMU commercial