

## Power Meter

3-phase Ethernet transducer  
for AC•THOR or AC ELWA-E

# Operation Manual



## 1. Assembly

Before placing into operation it is essential to read the assembly instructions provided with the device.

**⚠** Connect the current transducers to the Power Meter first, afterwards attach to the wires of the house! Another approach could lead to the induction of dangerous voltages in the metering leads and/or damage the current transducers!

**⚠** When installing the current transducers, beware of phase assignment and direction!

## 2. Commissioning; putting back into service

The three clamp-on transducers of the Power Meter are installed directly after the power supply meter in the distribution cabinet and measure the load flow.

**⚠** On commissioning, no special settings are required at the Power Meter!

**⚠** The wiring diagrams are found in the assembly instructions supplied with the Power Meter and also in their latest version at any time on [www.my-pv.com](http://www.my-pv.com).



## Indicator elements

A green LED on the Power Meter shows that power is being supplied. The indicator flashes as the network connection is being established.

The green and yellow LEDs on the RJ45 grid plug indicate that the physical connection to the grid connection is intact.

## 3. Operating modes

### Connection via router

DHCP is activated as standard at the Power Meter, meaning that the unit itself obtains an IP address from the router to which it is connected. This only works when the router is configured as a DHCP server.

For the required settings of AC•THOR or AC ELWA-E, please also refer to the notes in the respective operating instructions at [www.my-pv.com](http://www.my-pv.com).

### Web-Interface

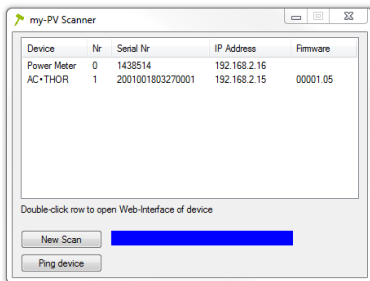
If connection to AC•THOR or AC ELWA-E is by way of network, access to the Power Meter web interface is possible.



For operation no special settings are necessary in the web interface!

Expiry of the network connection:

1. After the connection using a patch cable the Power Meter is assigned a dynamic IP address by the router. It can then be searched for in the network using the program "my-PV Scanner.exe" (included in the "Software package Power Meter.zip" on [www.my-pv.com](http://www.my-pv.com)).



2. The web interface opens by double clicking on the respective search result.



Scanning is performed via UDP port 16124. Firewalls (or specific router settings) may prevent the devices from being found.



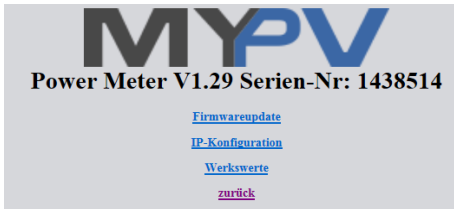
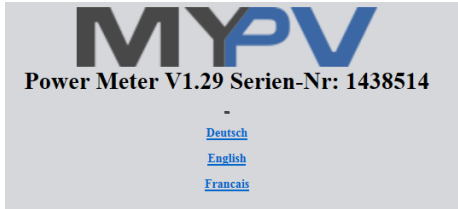
TIP: You will also find the IP address of the Power Meter in the DHCP list in the router!



my-PV does not recommend to connect the Power Meter to the Internet via port forwarding access!

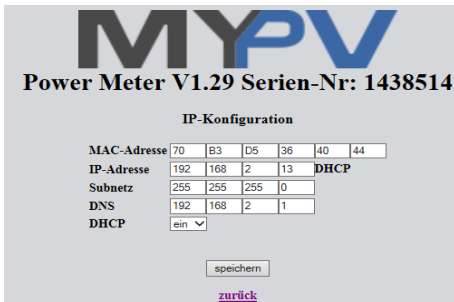
On the request for the password no input is necessary!

If a static IP address is desired, a fixed assignment is possible.



The Power Meter firmware can also be updated via the web interface.

This is included in the "Software Package Power Meter.zip" on [www.my-pv.com](http://www.my-pv.com).



Consider that the appearance and the scope of options can change with updated software versions.

## Direct connection without router

Connection to AC•THOR or AC ELWA-E without network is established by means of crossover network cable directly between the units.

For the required settings of AC•THOR or AC ELWA-E, please also refer to the notes in the respective operating instructions at [www.my-pv.com](http://www.my-pv.com).

"Power Meter Direct" has to be defined as signal source.



Use a crossover network cable!



No access is possible to the web interfaces of the devices!

## Direct connection via powerline without router

Connection to AC•THOR or AC ELWA-E without network is established via powerline connection directly between the units. No network crossover cables are needed for this, perfectly normal network cables can be used.

For the required settings of AC•THOR or AC ELWA-E, please also refer to the notes in the respective operating instructions at [www.my-pv.com](http://www.my-pv.com).

"Power Meter Direct" has to be defined as signal source.



Use a powerline adapter on the same phase!



No access is possible to the web interfaces of the devices!

## 4. Technical specifications

### POWER METER

Measuring range	0 – 60 A (higher currents are possible, using other clamp-on transducers). 230 V AC ( $\pm 10\%$ )
Interface	Ethernet (encrypted)
Dimension (W x H x D)	71 x 90 x 58 mm
Protection	IP 20
Connection technology	Screw clamps
Clamps, cross-section	2.5 mm <sup>2</sup> tags / 4 mm <sup>2</sup> wires
Tightening torque, clamps	0.6 Nm
Insulation stripping length, clamps	6 mm
Weight	ca. 175 g
Construction	35 mm standard track
Ambient temperature	0 ... 50 °C
Storage and transport	-10 ... 70 °C (avoid condensation)
Power supply	via measured voltage L1
<b>EMC</b>	
Product family standard	EN 61326
Fault transmission	EN 55011, CISPR11 Kl. B

### CLAMP-ON TRANSDUCER

Recordable cable diameter	max. 10 $\pm$ 0.3 mm
Dimension (W x H x D)	39 x 26 x 23 mm
Weight	3 x 60 g



To measure currents of over 60 amps the use of other clamp-on transducers is possible. For further details, please contact my-PV: [info@my-pv.com](mailto:info@my-pv.com)

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Subject to change without notice.

