# AC Current sensor

# CSE000100000 - AC Current sensor

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### Introduction

The AC Current sensor is a simple external current sensor used to measure AC Current, Power (VA) and calculate energy of a PV inverter connected to the AC input or output of a Multi or Quattro. These values can then be displayed and sent to the VRM-website by the Color Control. The two measurement wires can be connected to the AUX and/or temperature sense input of a Multi or Quattro.

#### Multi and Quattro hardware requirements

- 1. The Multi or Quattro needs to have the new microprocessor: make sure that the 7 digit firmware version number, as written on the microprocessor, starts with 26 or 27. Old, and therefore incompatible, control boards will have a firmware version starting with 19 or 20.
- 2. The TEMP-sense input of all Multi's and Quattro's is suitable for the AC Current Sensor.
- 3. The AUX-input however is not, see serial number list below to check your hardware.

#### Installation

- 1. Pull one of the AC wires of the PV inverter through the AC Current sensor.
- Connect the sensor to the AUX or TEMP-sense input of an Inverter, Multi or Quattro in the same phase as being measured by that current sensor.
- 3. Configure the power range with the dipswitches. Select the power equal or higher than the maximum expected power. For example, with a 4kW PV installation, the correct dipswitch setting is 5kW.
- 4. Multi-phase installations: add one AC current sensor for each phase of the PV inverter. Wire it to the Multi in the same phase.

#### Configuration

 Upgrade the Multi or Quattro firmware to the latest version (2xx). Instructions are in the VEConfigure3 requirements document. Download from:

www.victronenergy.com/support-and-downloads/software/

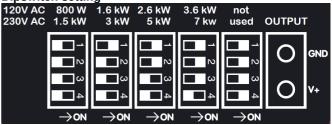
- 2. Parallel and three-phase systems: configure parallel or three-phase operation first.
- 3. Then use the VEConfigure3 to add and configure the 'AC Current sensor' assistant.
- 4. Parallel and three-phase systems: add the assistant to each Multi or Quattro that has an AC Current sensor connected to it.
- 5. Make sure that the Color Control is running firmware version v1.11 or newer.
- Select the correct profile on the Color Control: Settings -> System setup.

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### ENGLISH

Power range	1.5k W	3kW	5kW	7kW	Not used	
Power step size Approx depends on input voltage (230V AC)	9	17	30	35	-	w
Power step size Approx depends on input voltage (120V AC)	4.5	8.5	15	17.5	-	w
Max measured Current	8	16	25	30.5	-	Α
Max Input current	9	18	30	40	-	Α
Dipswitch	-	1	1,2	1,2,3	1,2,3,4	ON
Protection category	IP54					

#### **Dipswitch setting**



Product photo



Supported models		AUX input	TEMP input
Product code	Description	Minimum SN#	Minimum SN#
PMP485021010	MultiPlus 48/5000/70-100 230V	HQ1326	All serial numbers
QUA123020010	Quattro 12/3000/120-50/50-230V	HQ1332	All serial numbers
QUA488020000	Quattro 48/8000/110-100/100 230V	HQ1327	All serial numbers
QUA481030010	Quattro 48/10000/140-100/100 230V +50A aux.	HQ1326	All serial numbers
PMP243021014	Multi-G 24/3000/70-50	All serial numbers	All serial numbers
PMP245021014	Multi-G 24/5000/120-100	All serial numbers	All serial numbers
PMP485021014	Multi-G 48/5000/70-100	All serial numbers	All serial numbers
Other models		Not yet implemented.	All serial numbers



