

# MCS

Modular Current Sensor



- Current meter
- Variable resolutions by shunt (50/100/200/400/800 A)
- Plug & Play setup
- Two-LED status indicator
- Powder-coated metal case

The MCS (Modular Current Sensor) is a component of the Modular Power Management controller family. MCS works in combination with MCU (Modular Central Unit) within the modular power management system. MCS measures system current In and Out of the battery which is not otherwise collected by other MPM units. This can be charge current from Wind and/or Diesel Generators or load current used by Inverters. Equipped with a current shunt, the MCS measures current in the measurement range of 50 A up to 800 A and reports to the MCU for data logging system analysis and monitoring purposes.

MCS can be connected to any free bus port within the Modular Power Management system. Simple DIP-Switch

settings for address allocation and current range setting (according to the applied current shunt) is made at the time of installation. No further configuration is necessary. A sensor cable is connected to the current shunt. Two LED's display the status of the unit. MCS is built into a robust metal housing which is prepared for DIN-rail mounting. MCS and the Phocos Modular Power Management family allow for an unprecedented variety of PV-Hybrid System designs. The modular nature of this controller family assures simple, customized and safe system design with amazing expandability potential. The use of intelligent components such as MCS and MCU provides complete system performance monitoring for accurate system analysis.

Type	MCS
Current measurement range	50/100/200/400/800 A (shunt)
Dimensions (W x H x D)	26 x 80 x 50 mm
Weight	150 g
Input voltage range	0 – 50 mV
Length of sensor wire	50 cm
Temperature range	-40 to +60 °C
Self consumption	< 15 mA
Mounting	DIN rail