

M2W

Modbus / Meter to WiFi



The M2W module enables you to manage and balance the load of your electrical system and EV charger so that the power consumption stays within the limit of your main breaker. It also provides remote readings of your power grid and energy consumption which can be used for billing purposes (reading from MID certified meter).

The M2W module communicates with the MID Meter over Modbus RTU (RS485) and sends the contents over WiFi.

0 1 — FEATURES

Load Balancing with multiple modes (Standard, Eco, Eco+)

Power Grid Monitoring

MID metering

0 2 — LOAD BALANCING MODES

Disabled	This mode disables any type of load balancing, but continues to report metering values
Standard	This is the normal operation mode, which ensures that the set breaker limit is not exceeded. Any linked charger will automatically adjust its charging power to respect your set limit.
Eco	The Eco mode enables you to make use of your solar panels and redirect the energy surplus in charging your car. Instead of injecting the surplus in the grid, this mode will adjust the charging current, so that all surplus energy is used for charging. If no surplus is available, this mode will still allow charging with the minimum charging current.
Eco +	The Eco + mode will charge your car only with green energy : Only if enough solar energy surplus is available, the charging will start and use that surplus. If the solar power production drops below the minimum set current, the charging will pause until solar energy is available again.

0 3 — SPECIFICATIONS

Operating temperature	-25 °C to +55 °C
Ingress Protection	IP30
Weight	50g
Width x Height x Depth	19 x 87 x 65 mm
Installation / Operation position	DIN-rail / Any
Power consumption	max 5W
Operating voltage	L-N Terminals: 85-240VAC 50/60Hz USB Port: 5V DC

0 4 — RF SPECIFICATIONS :

WiFi	WiFi Protocols: 802.11 b/g/n Frequency range: 2412-2484 MHz Tx Power: max 20.5 dBm
NOT USED: Bluetooth	Compliant with Bluetooth v4.2 BR/EDR and BLE specifications Tx Power: max 12 dBm
Interface with Smart Meters over Modbus-RTU (RS-485)	
Included Features: Power Grid Observation, Load Balancing with multiple modes (Disabled, Standard, Eco, Eco+)	