

WattmonMINI2

Remote Monitoring & Control Solution



Specifications

Communication

- RS-485 Modbus RTU port for communication with up to 5 Slaves
- Modbus TCP Client mode for communication with up to 5 Servers
- Modbus TCP Server mode to interface with SCADA systems

Power

- Input voltage range: 8-24V DC
- Low Power Consumption of < 2 Watts

Network

- 100 Mbit Ethernet
- 3G and 4G LTE (via external USB Stick)

Storage

- 512 KB RAM
- 16 GB MicroSD Card

Data Collection & Export

- CSV format
- HTTP / HTTPS / FTP / SFTP / MQTT / MQTTS

Applications

- **Inverter Monitoring**
Inspect generation and efficiency of grid-tie and hybrid inverters
- **AC Power Monitoring**
Supervise load and performance of substations and mini-grids
- **Weather Station Monitoring**
Observe irradiation, temperature and other atmospheric conditions
- **Zero Feed-In & DG Protection**
Reduce active output power of multiple inverters to regulate energy generation

Characteristics

Cover Material	ABS (Light Gray)
Base Material	Nylon (Light Gray)
Degree of Protection	IP20 (Finger Protected)
Operating Temperature	0-60 °C
DIN Standard Mount	EN 60 715 TS35, TS15,G32
Dimensions (L x W x H)	134 x 40 x 90 mm
Weight	160 g

Introduction

The Wattmon hardware and software platform is the most flexible in the industry. It can be used for monitoring Grid-Tie, Hybrid and Off-Grid setups, Solar Water Pumping, Building Loads, and features a Zero Feed-In and DG Protection solution that is compatible with leading manufacturers.

The WattmonMINI2 is a Modbus Master (Client in Modbus TCP) that can interface with up to 5 RTU Slaves and 5 TCP Servers. It may also be configured as a Modbus TCP Server to interface with a SCADA system. A quick configuration tool allows for the setting up of the device for a range of inverters, energy meters and sensors.

It supports the following data types:

- IEEE754 Float (Big and Little Endian)
- INT32 (Big and Little Endian)
- UINT32 (Big and Little Endian)
- INT16

Benefits

- **Versatile**
Configurable by anyone using the built-in *EZConfig* function
- **Multilingual**
Features an interface in English, Español, Deutsch, Français, हिन्दी, தமிழ்
- **Remotely Accessible**
Log into the device remotely through the Wattmon Proxy server using a 3G/4G USB dongle or via Ethernet
- **Industry Compliant**
Integrate new and existing devices over Modbus RTU/TCP with the on-board device driver creator
- **Local Storage**
Securely store several years worth of data locally in CSV format and control who can view it
- **Programmable**
Write scripts in the built-in editor using the uPHP language or the *Visual Script Builder*

Zero Feed-In & DG Protection

The Wattmon Power Control Solution can throttle the active power output of inverters on sites with no Net Metering or with Diesel Generators, securing against grid export or reverse-feeding and over-frequency damage. The supported brands are :

- ABB
- Delta
- Emerson
- Fronius
- Goodwe
- Growatt
- Huawei
- Ingeteam
- Kaco
- Kstar
- Polycab
- Refusol
- SofarSolar
- Schneider
- SMA
- SolarEdge
- Solis Ginlong
- Sungrow
- Zegersolar
- *and more...*

Energy Monitoring Solution (EMS)

The WattmonMINI2 is capable of storing several years worth of data on the MicroSD card. It can also upload the logged data to the Wattmon Energy Monitoring Solution (EMS), a highly customizable cloud portal that displays real-time data in the form of graphs and widgets, allowing users to select the parameters they wish to monitor, and create separate accounts for individual clients.

Conformity

Emissions	
Electrostatic Discharge	
Electrical Fast Transient	
Surge Immunity	

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