



## WattmonMINI IoT Data Logger Specifications

# WattmonMINI

### Remote Monitoring & Control Solution



### Specifications

#### Communication

- RS-485 Modbus RTU port for communication with up to 6 devices
- Modbus TCP for communication with 1 device

#### Power

- Input voltage range: 12-24V DC
- Low Power Consumption of < 2 Watts

#### Network

- 10 Mbit Ethernet
- 3G and 4G LTE via external USB Stick

#### Storage

- 16 GB MicroSD Card
- 128 KB RAM

### 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
- **Zero Export & DG Protection**  
Reduce active output power of multiple inverters to regulate total energy generation
- **Cell Tower Monitoring**  
Observe power consumption

### Characteristics

Cover Material	ABS (Light Gray)
Base Material	Nylon (Light Gray)
Degree of Protection	IP20 (Finger Protected)
Operating Temperature	0-60 °C
DIN Rail Mount	EN 60 715 TS35, TS15,G32
Dimensions (L x W x H)	112 x 40 x 90 mm
Weight	150 g



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### Introduction

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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 manufacturer-agnostic Zero Feed-in and Diesel Generator Protection solution compatible with the leading inverter brands of today.

The WattmonMINI acts as a Modbus master and can interface with up to 6 Modbus RTU and a single Modbus TCP slave device with a maximum of 60 total data points. A data point is a single value such as a voltage or current value.

It supports the following data types:

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

### Benefits

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- **Versatile**  
Configurable by anyone using the built-in device manager
- **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 Stick or Ethernet
- **Industry Compliant**  
Integrate new and existing devices 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 proprietary scripts in the built-in editor using the uPHP language or the *Visual Script Builder*

### Compatibility

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Wattmon currently has drivers for devices from the following manufacturers:

- |                  |                 |
|------------------|-----------------|
| ■ ABB            | ■ L&T           |
| ■ Consul Neowatt | ■ Polycab       |
| ■ Delta          | ■ Refusol       |
| ■ Eastron        | ■ Schneider     |
| ■ Fronius        | ■ Secure        |
| ■ Growatt        | ■ SMA           |
| ■ Hitachi        | ■ SolarEdge     |
| ■ Huawei         | ■ Solis Ginlong |
| ■ Ingeteam       | ■ Sungrow       |
| ■ Kaco           | ■ Zeyversolar   |
| ■ Kernel sistemi |                 |

### Energy Monitoring Solution (EMS)

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The WattmonMINI is capable of storing several years worth of data locally on the MicroSD card. However, it can also upload the logged data to the Wattmon Energy Monitoring Solution (EMS) is a customizable cloud portal that displays real-time data in the form of graphs and widgets. Users can select the parameters they wish to monitor and create separate accounts for individual clients. Data can be downloaded in CSV format.

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