



# **WattmonPRO**

Remote Monitoring & Control Solution



## **Specifications**

## Communication

- RS-485 Modbus RTU port for communication with up to 8 devices
- Modbus TCP for communication with 1 device
- RS-232 Serial Port
- Dallas 1-Wire bus

## Inputs and Outputs

- 3 Analog Inputs: 0-5V, 6-60V, 0-330V DC
- 4 Digital Inputs (3 with pulse counting)
- 4 Digital Outputs
- 1 Integrated 5A relay

## Power

- Input voltage range: 6-60V DC
- High Efficiency DC-DC converter
- Low Power Consumption of < 2 Watts

## Network

- 10 Mbit Ethernet
- GPRS, 3G and 4G LTE via external USB cellular dongle

## Storage

- 16 GB MicroSD Card
- 128 KB RAM

## **Applications**

■ Inverter Monitoring
Inspect generation and efficiency of gridtie and hybrid inverters

■ AC Power Monitoring
Supervise load and performance of substations and mini-grids

Off-Grid Battery Monitoring
 Observe battery voltage, current, SoC, charging Trends and health over time

Zero Export & DG Protection
 Reduce active output power of multiple inverters to regulate energy generation

### Material

Cover	ABS Polycarbonate (White)
Base	ABS Noryl (Black)

## Dimensions & Weight

Length	130 mm
Width	70 mm
Height	75 mm
Weight	200 g



# WattmonPRO IoT Data Logger Specifications

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

The WattmonPRO acts as a Modbus master and can interface with up to 8 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

## Versatile

Configurable by anyone using the builtin 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

Wattmon currently has drivers for devices from the following manufacturers:

ABB

- L&T
- Consul Neowatt
- Polycab

Delta

- Refusol
- Fastron
- \_ .....

Schneider

- Emerson
- Secure
- Fronius
- SMA
- Growatt
- SolarEdge
- Hitachi
- Solis Ginlong
- Huawei
- Studer
- Ingeteam
- Sungrow
- Kaco
- Victron Energy
- Kernel sistemi
- Zeversolar

# Energy Monitoring Solution (EMS)

The WattmonPRO 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.

## Conformity

Emissions	CISPR 11, Class A CISPR 22, Class A
Electrostatic Discharge	IEC EN 61000-4-2
Electrical Fast Transient	IEC EN 61000-4-4
Surge Immunity	IEC EN 61000-4-5

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