

WattmonMEGA

The WattmonMEGA¹⁾ is the most recent and capable release of the [Wattmon](#) range of embedded data logging and control devices. The external connections are the same as for the [WattmonPro](#), but the internal hardware is improved, with four times as much RAM (512 KB), 100 Mbps Ethernet, a processor clock of 200 MHz, 12-bit ADC inputs (4096 possible values for the full scale), and an expansion of the maximum number of RS-485 Modbus RTU/TCP devices (32 RTU, 10 TCP).



The MEGA uses the same OS as any of the [Wattmons](#) including the [PRO](#), and is compatible with the same set of [Modules](#) and [Accessories](#). The firmware has the same set of functions as all of the [Wattmons](#) and the [PRO](#), but is expanded to take advantage of the hardware improvements. These changes add flexibility and speed, making it over twice as fast as the [PRO](#) and easier to customize for any application.

The MEGA can be used for **any** application in monitoring, control and data logging for the IoT. But particularly noted applications include:

- **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

[Overview](#) - Introduction to the features of the WattmonMEGA

[DataSheet](#)

[EC Declaration of Conformity to Standards Compliance](#)

Quick Start Guide

The Quick Start Guide is a regularly updated manual that sheds light on some of the basic and/or essential configuration for the WattmonMEGA running the latest WattmonOS version.

- [Quick Start Guide](#)

User Manuals

These User Manuals, while initially written specifically for the [WattmonPRO](#), are relevant to the WattmonMEGA too.²⁾

- [Overview](#)
- [Chapter 1, Hardware Installation](#)
- [Chapter 2, Connecting to the Web Interface](#)
- [Chapter 3, Using the Wattmon Operating System](#)
- [Troubleshooting](#)

¹⁾ For those interested in history: while yet in design this version was called the WattmonPRO2.

²⁾ These User Manuals are somewhat “dated,” having been written during times when the newer Wattmons had not yet been released, and they sometimes feature or show specific [Modules](#) or [Hardware](#) that are obsolete (no longer available). However, the OS is the same for all of the Wattmons. Therefore the hardware differences are the only thing to keep in mind when using these manuals, especially the [Original Wattmon](#) and [WattmonMINI](#) which do not have the additional I/O ports that are provided on the [WattmonPRO](#) and [WattmonMEGA](#).

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