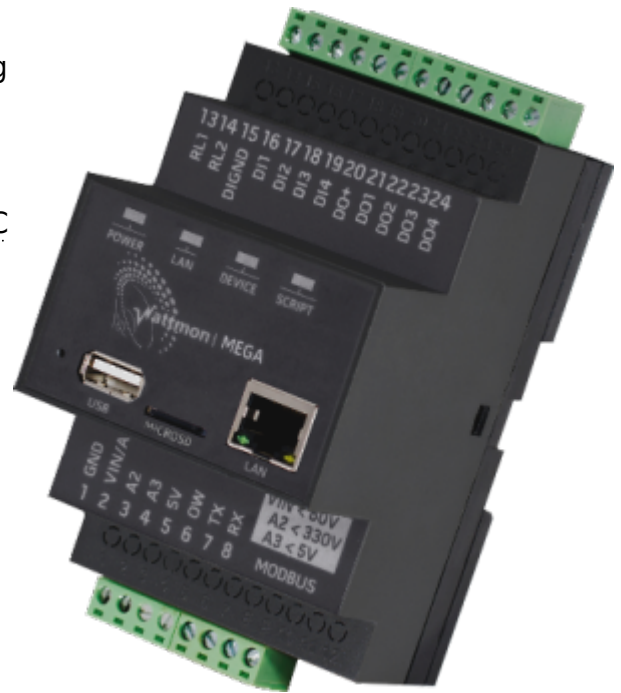


# WattmonMEGA

The WattmonMEGA<sup>1)</sup> 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 the [PRO](#), and is compatible with the same set of [Modules](#) and [Accessories](#). The firmware has the same set of functions as 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](#)

## User Manuals

These User Manuals are helpful for the MEGA:<sup>2)</sup>

- **Quick Start Guide** ([PRO](#) and [MINI](#))
- **Overview** ([PRO](#))
- **Chapter 1, Hardware Installation** ([PRO](#))

- **Chapter 2, Connecting to the Web Interface** (PRO)
- **Chapter 3, Using the Wattmon Operating System** (PRO)
- **Troubleshooting** (PRO)

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

<sup>2)</sup>  
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 [PRO](#) and [MEGA](#).

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