



Power Meter Monitor

Business and Mission-

Critical Solutions Provider

Modbus Data Logger

Data Sheet



Model: PMM0203

Document: Data Sheet

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This restriction is subject to protect the operational process of the system in the business environment, which will produce, use, and transmit radiofrequency energy. Harmful interference to radio communication could result if instructions to the correct installation and usage were not applied. The interference prevention cannot be guaranteed even with proper installation according to the manual. If the device causes a bad effect on the radio / TV signal. The user could preclude that by turning the device on/off.

When this device produces some harmful interference, the user can use the following measure to solve the interference problem:

1-Setting the receiving antenna's direction or location to increase the distance between this device and receiver.

2-Plug in the device's power connector into different circuits of the power outlet with the receiver.

3-If any technical support is needed, the dealer or experienced radio/TV technical personnel must be informed.

TECHNICAL SUPPORT AND SERVICE

Visit Pmm-usa.us to browse FAQs and get further details.

User should collect the following information before submitting technical support and service requests:

- Product name, model and serial number.
- Installed software (operating system, OS version, installed applications and so on).
- Full description of the problem
- Detailed information about every error.

SAFETY INSTRUCTIONS

- Only trained and qualified personnel can install, operate, or maintain the device.
- Before starting the installation, all safety precautions must be read and warning labels affixed to the device must be observed. Doing so protects the device from damage and ensures your safety.
- Safety precautions provided in this document may not cover all safety aspects, note to always remain mindful of safety.
- PMM is not liable for any consequence that results from violation of regulations pertaining to safe operations or safety codes pertaining to design, production, and equipment usage.
- DO NOT use liquids or decontamination spray to clean the device surface and assure that it is totally disconnected while cleaning.
- Take all measures to prevent device drop before or during installation.
- Prior to connecting the device to power source, ensure the source and device voltage and power are 100% matched.
- Keep the cables in a suitable covered place.
- If the device is not used for a long time, shut off the power to avoid the damages by transient overvoltage.
- DO NOT allow any liquid flow into the device; to avoid fire or short circuit.
- The recommended storage temperature range should NOT be less than 30°C OR higher than 85°C.



Warning:

- Read the power source and device inlet carefully.
- Handle device with both hands.
- Clean and maintain the device using recommended, safe and suitable methods.



Caution:

If any unauthorized changes of settings or repairs are done without PMM approval; then user's rights of controlling this device will be canceled.



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KEY FEATURES

- Multiple Modbus channels
- Easy to use setup screen
- Automatic data logging
- Data readouts
- On screen data trending graph

DESCRIPTION

Multiple Modbus channels let you interface with many different Modbus registers. Just specify the device address and register address numbers for each channel.

This screen displays only the required Modbus information in an easy to understand format. Use the setup screen to configure what data to log, the data logging interval, the scale factor for each Modbus register, and save the entire configuration screen to an external file for later use. If specified, data will be logged to an external file in .CSV format; a format that can easily be opened and edited using standard spreadsheet programs such as EXCEL. Each log entry is date and time stamped for easy offline review. Data is logged in real time so to minimize chances of data loss due to external problems. File names include the date and time the file was created along with optional user specified text. New log files are automatically created when the maximum file size is exceeded, allowing the program to gather data for an almost unlimited amount of time without stopping the program.

Data readouts provide a quick and easy method for reviewing the current Modbus register values. The data grid on the left hand side of the screen shows the user specified name along with its most current value.

An onscreen data trending graph displays real-time data as it is read from the Modbus slave devices. Zoom into data on the graph using one of the 3 window zoom features. Pan the graph to view the data as it changes. Specify the minimum and maximum axis values and Y Axis titles via the graph options button. Set the graph to automatically pan with time so that the latest data is always visible. Perform all of these functions while the graph updates with the latest data.

HARDWARE CPU CHASSIS SPECIFICATIONS (2 Options)

Computer



Option1: CPU Chassis PMM0107

Option2: CPU Chassis PMM0108

CPU	Intel® Atom™ x5-Z8350 CPU	Intel® Apollo Lake Series J3355
DRAM	4GB DD3RAM	DDR3L Up to 8GB
Storage	16GB eMMC	
RTC CHIP	CR2032	SSD 1*full size mSATA SSD
Pre-installed OS	Windows 10 lite	Windows 10 or Linux Ubuntu

Computer Interface

Ethernet	1x 10/100/1000Base-T RJ45	24x 10/100/1000 RJ-45
Fiber	1x 1000Base-X SFP	N/A
USB	1x USB3.0 Type A	4 x USB3.0/2.0/1.1
Wi-Fi	2.4/5GHz	N/A
Serial	1x RS485	2x RS232 (RS-232/485 Optional)
Optional Interface	3x customizable communication slots: PMM RS485 Module PMM RS232 Module PMM RS422 Module PMM CAN Bus Module PMM IO Module	N/A
SD Slot	1x MicroSD	N/A

Power Parameters

Power Supply Options	85-265 VAC / 100-300 VDCM 10-48 VAC / 10-60 VDC Direct inputs 5 VDC / 3 A	9-30V DC +- 10%
Power Connector	Phoenix Contact 4 pins 3.5mm	

Physical Characteristics

Housing	Metal	Metal
Dimensions	5.27*5.27*1.45 inch (134*134*37 mm)	145mm*145mm*75mm (5.71"*5.71"*2.95")
Mounting Options	Standard 35mm DIN Rail Direct Panel Mounting Front Panel Mounting 19" rack 1U	Standard 35mm DIN Rail

CONTACT INFORMATION:

For direct inquiries or any customized orders, contact us on sales@Pmm-usa.us