



Power Meter Monitor

**Business and Mission-
Critical Solutions Provider**

RS485/RS422/RS232 - Fiber Converter

Data Sheet



Model: PMM0503Lite (0612)

Document: Data Sheet

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DECLARATION OF CONFORMITY

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

- 1x Fiber optic port
- 1x customizable serial port
- Transmission Speed of up to 115200 kbps
- ESD Protection for the RS485 Data Line
- Meets all power substation requirements
- Din Rail, wall mount, panel mount and rack mount options
- Compact size with fanless design

TARGET APPLICATION

PMM0503Lite can perform efficiently and effectively in the PV, substation and industrial applications as:

- RS485 - Fiber Converter
- RS422 - Fiber Converter
- RS232 - Fiber Converter

DESCRIPTION

PMM0503Lite is a RS-232/422/485 to fiber media converter. It is used for RS-232/422 point-to-point connections and RS-485 multi-drop applications for transmitting a signal up to 1 km (3280.84 ft) and is the perfect solution for applications where transmission must be protected from electrical exposure, surges, lightning or chemical corrosion.

PMM0503 industrial grade media converter can function under harsh environmental conditions of any site. It is especially designed to meet all power substations and PV plants requirements. Furthermore, it covers all field standards of power, reliability, easy configuration and long-lasting life.

This device can be ordered with multiple power supply ratings to select from. Check the ordering tab for available options that meets your requirement.

TECHNICAL SPECIFICATIONS

Interfaces

| | |
|----------|---------------------|
| Serial | 1x RS485 port |
| Ethernet | 3x 10/100 RJ45 |
| Fiber | 1x fiber optic port |

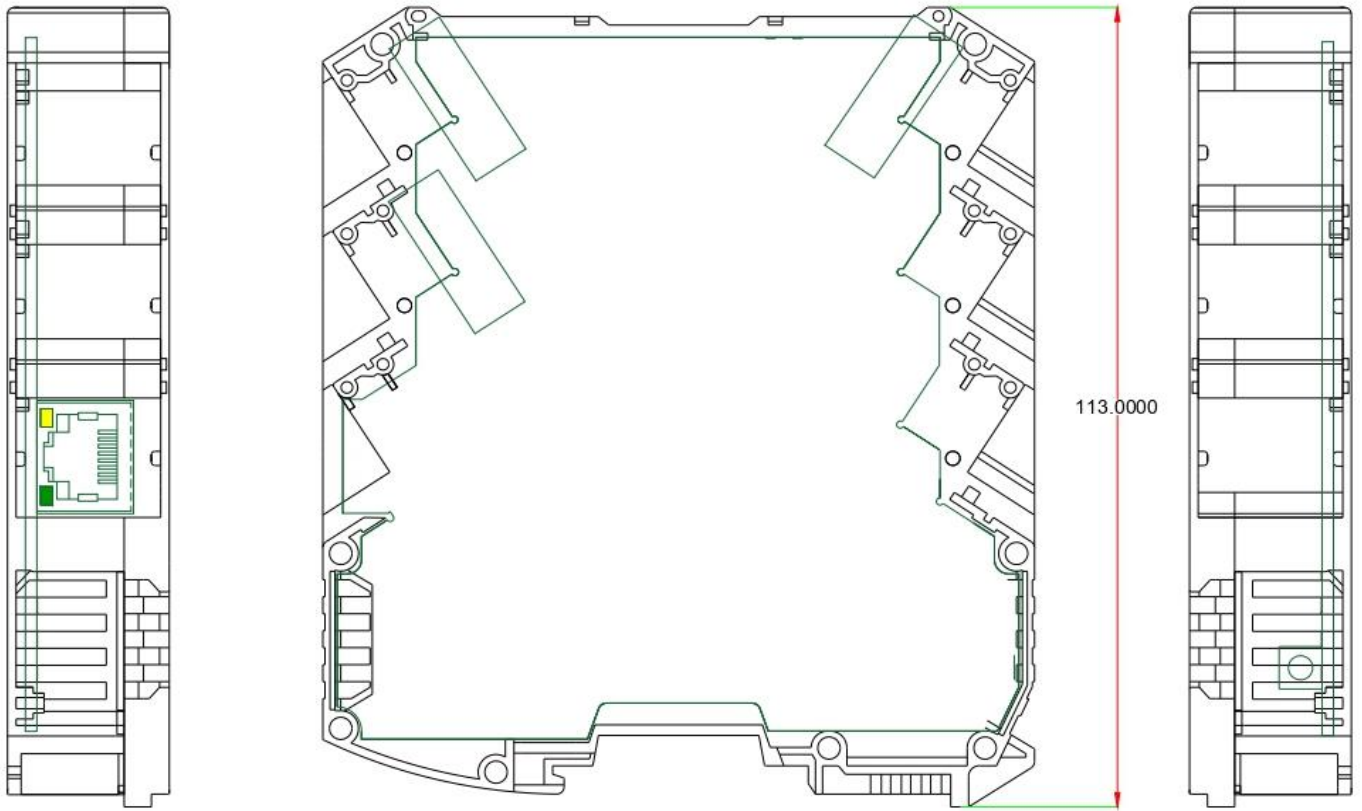
Power Parameters

| | |
|----------------------------|------------------------------|
| Input Power Supply Options | 9-56 VDC |
| Power Connector | Phoenix Contact 4 pins 3.5mm |

Physical Characteristics

| | |
|------------------|--|
| Housing | Plastic |
| Dimensions | Dimensions 4.05 x 4.05 x 0.88 inch (103 x 103 x 22.5 mm) |
| Mounting Options | DIN Rail |

ENCLOSURE DIMENSIONS



ORDERING INFORMATION

Order Configuration table

| PMM0503Lite | - x | - 09xx | - 09xx | - xxxx | - xxxx |
|--------------------------------------|-----|--------|--------|--------|--------|
| Power supply | | | | | |
| 85-265 VAC / 100-300 VDC | -1 | | | | |
| 10-48 VAC / 10-60 VDC | -2 | | | | |
| Direct input 5V, 3A | -3 | | | | |
| COM Port 1 | | | | | |
| RS232/RS42/RS485 | | -0912i | | | |
| Fiber Optic port 1 | | | | | |
| SFP Connector | | | | -SFPO | |
| Single Mode 20 Km /SC type connector | | | | -SC20 | |
| Single Mode 40 Km /SC type connector | | | | -SC40 | |
| Single Mode 80 Km /SC type connector | | | | -SC80 | |

Accessories

| | |
|------------------------------------|---------------------------|
| DIN Mount (included 1 Kit) | DIN Rail Mounting Bracket |
| Wall Mounting Kit (included 1 Kit) | 2x Wall Mounting Bracket |
| Panel Mounting Kit (Optional) | 2x Panel Mounting Bracket |
| Rack Mounting Kit (Optional) | Rack Mounting Bracket |

CONTACT INFORMATION:

For direct inquiries or any customized orders, contact us on info@pmm-usa.us