RS485 Repeater - Converter

Data Sheet

Model: PMM0504Lite (0610)
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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.

Contents

KEY FEATURES

- 1x RS485 Repeater or Converter function
- Meets all power substation requirements
- Isolated power supply option
- ESD protection
- Bidirectional data transfer
- Safe and easy to use and operate
- Operating temperature: -40 to 80°C (-40 to 176°F)

TARGET APPLICATION

PMM0504Lite can perform efficiently and effectively in the PV, substation and industrial applications as:

- Bidirectional RS232-RS485/422 converter
- RS232 Repeater
- RS485 Repeater

DESCRIPTION

PMM0504Lite is an isolated RS232-485/422 converter, RS485 repeater and RS232 repeater. It has the ability to convert serial data communication types and the 120 Ohm terminal resistor helps in noise reduction as well as impedance matching. The device contains two circuits as a result it also functions as a repeater extending data transfer distances while protecting the device form ground loops, noise problems, transient surges, remote lighting and spikes. Another added feature that comes with the use of two circuits is that now you can connect a larger amount of devices as well as use two networks instead of one.

PMM0504Lite 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.

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

113.0000
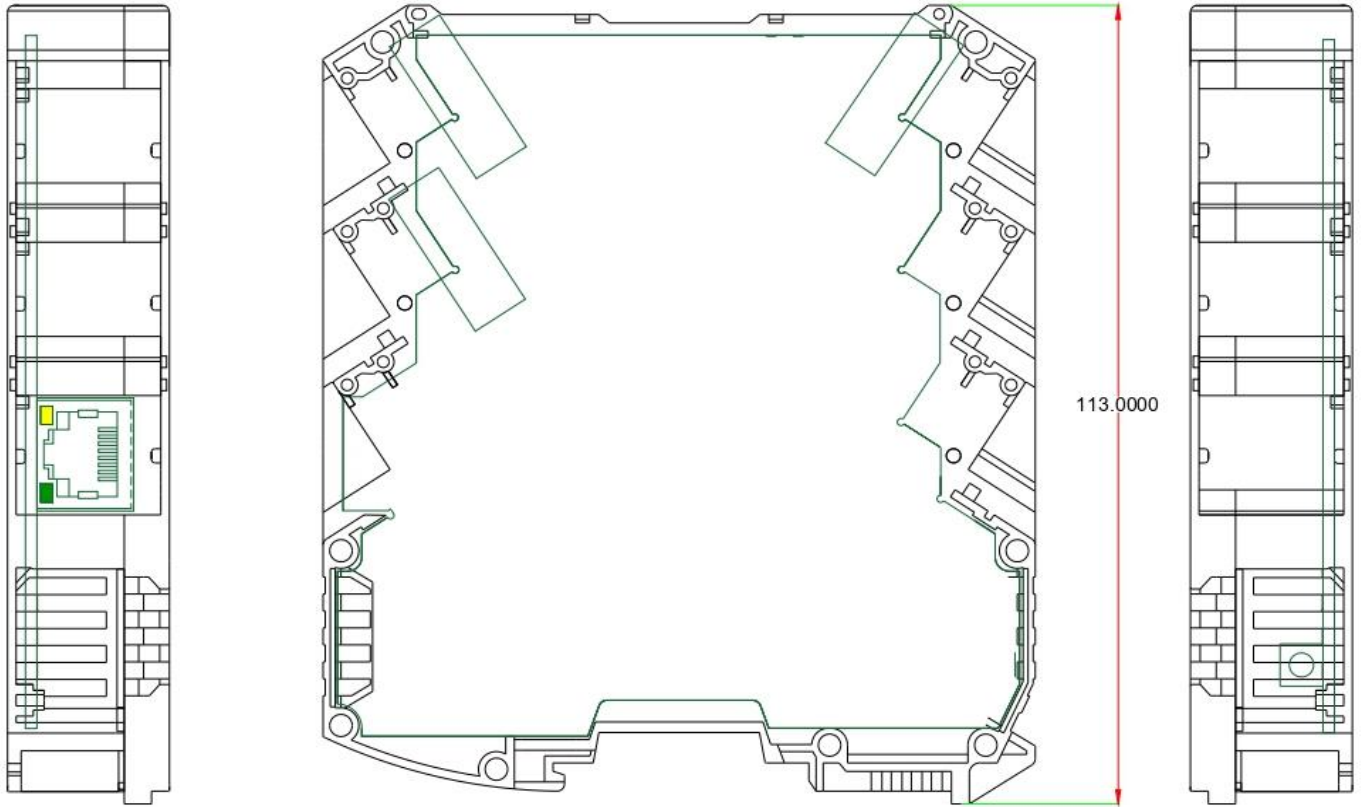
ORDERING INFORMATION

Order Configuration table			
PMM0504Lite	- x	- 09xx	- 09xx
Power supply			
10-56 VDC	-4		
COM Port 1			
RS485		-0912i	

Accessories

DIN Mount (1 kit included)	DIN Rail Mounting Bracket
Wall Mounting Kit (1 kit included)	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**