

ETHERNET METERBUS CONVERTER™

The Ethernet MeterBus Converter (model: EMC-1) enables IP based network and internet connectivity to any Morningstar product that features an existing MeterBus port (RJ-11) including:

PWM controllers: TriStar and SunSaver Duo

MPPT controllers: TriStar MPPT, ProStar MPPT, and SunSaver MPPT

Inverters: SureSine

The EMC-1 is powered by connecting it to the Morningstar product's MeterBus port and the DC input for 12, 24, or 48V systems. The MeterBus port connection enables transmission of serial data to the EMC-1. The EMC-1 converts this connection to a fully enabled Ethernet port to allow data transfer to the internet. This facilitates remote monitoring, configuration, and control using any type of IP based network connection. Thus, many new powerful integration options for Morningstar products can be established in remote power systems.

KEY FEATURES AND BENEFITS

- > IP based MODBUS connectivity for remote communication and control.
- > Remote configuration of controller settings.
- Morningstar's Live View displays system status and log data directly from the EMC-1 to a webpage.

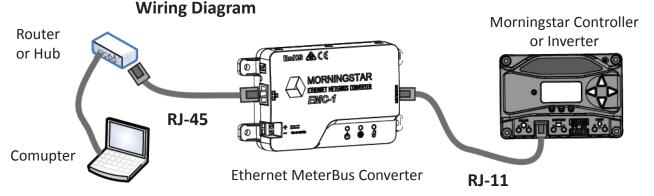
RoHS & CE

MORNINGSTAR

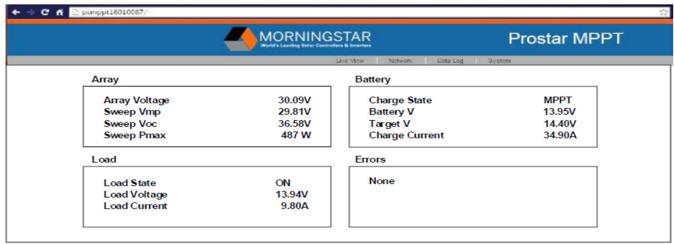
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EMC-1

➤ A cloud hosted data service is scheduled for launch at the end of 2016.



Live View





TECHNICAL SPECIFICATIONS

Mechanical

• Dimensions 15.3 x 8.60 x 3.0 cm

6.04 x 3.37 x 1.2 in

• Weight 0.13 kg / 0.28 lbs

Environmental

• Operating Temperature Range —40°C to +60°C

• Storage Temperature Range -55°C to +80°C

Humidity 100% non-condensing

Electrical

• DC Input Supply Voltage Range 8-80 Vdc

Maximum Self-consumption
 2 Watts

Data & Communications

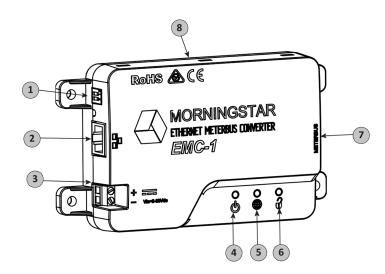
• Communication ports MeterBus (RJ-11)

Ethernet (RJ-45)

COM Protocols MODBUS Serial

MODBUS TCP/IP

• Ethernet speed 10/100Base-T



1 - DIP Switches

DIP 1 enables Ethernet write commands.
DIP 2 enables cloud data service (future use)

2 - Ethernet port (RJ-45)

Used to connect the EMC-1 to LAN / Internet

3 - Power Input

8-80 Vdc power input

4 - Status LED

Green and red lights indicate unit status

5 - Web Monitoring Service LED

Green and red LEDs indicate Web Service status (future use)

6 - Ethernet Write LED

Green light indicates Ethernet write command capability

7 - Meterbus (RJ-11 port)

Used to connect the EMC-1 to Morningstar Device

8 - DIN rail mounts (bottom of unit)

35mm standard size







