



M54600 Transceiver for Electric Meters Reads EM-2000 Series Electric Meters

Overview

The H2O Degree M54600 is a wireless transceiver.

The device monitors and records kWh consumption from up to 24 H2O Degree EM-2000 electric meters over a RS-485 serial line and transmits the kWh data to the H2O Degree gateway.

The M54600 can be provided in an NEMA4 enclosure for indoor or outdoor applications.

Features

- The H2O Degree M54600 radio is compatible with H2O Degree EM-2000 series electric submeters. For other meters contact factory.
- The M54600 provides a radio interface to remotely collect kWh data from up to 24 EM-2000 electric submeters over RS-485 using the EM-2000 protocol.
- The EM-2000 electric meter maintains the cumulative kWh consumption reading at all times. This cumulative kWh register is read using the EM-2000 RS-485 serial protocol. If a radio device is used to read the pulse outputs from an electric meter, then pulses could be missed whenever the radio device is not powered on. In contrast, the M54600 device uses a serial protocol to read the cumulative kWh register which is maintained by the electric meter.
- The transceiver is compatible with the H2O Degree secure wireless 2.4 Ghz mesh network.
- By using a magnet, the installer can force a radio transmission and receive feedback on radio connectivity in real time.
- Device software can be updated over the air.
- If the transceiver is unable to transmit the data, the device continues to poll the electric meters attached to the device.



Ordering Information

Model	Description
M54600	M54600 Transceiver for EM-2000 Electric Meters (requires power supply)
PS-1001	120 VAC to 9 VDC power supply
PS-1007	24 VAC to 12 VDC power supply

1/2016



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Technical Specifications

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Electrical

Voltage input 9 to 28 volt DC

Current input 45 milli-amps typical, 250 milli-amp max

Regulatory approvals

US Complies with FCC CFR Part 15

European RADIO EN 300 328:v1.7.1

European EMC EN 301 489-17:V2.1.1

European SAFETY EN 60950-1:2005 (Ed. 2.0)

Radio

20 dBm output power

High sensitivity -106 dBm

16 channels (802.15.4 Channel 11 to 26)

2.4 GHz ISM band

Environmental

Operating temperature 0 to 30 degree C

Storage temperature -25 to 50 degrees C

Physical

(H x W x D) 5.0 x 3.5 x 1.0625 inch

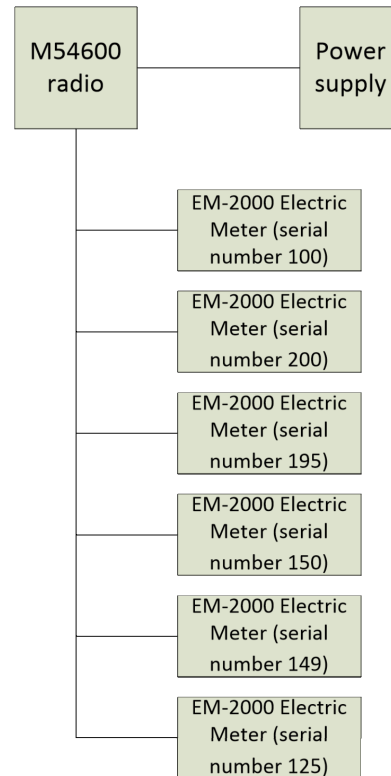
Color natural

Weight / shipping weight < 9 oz. / 1 lbs.

Warranty

18 months

Wiing & Installation Information



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