

## 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.



## 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.

## 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

## Technical Specifications

### 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

## Wiring & Installation Information

