

Features

- The H2O Degree M54130 is a line powered wireless pulse counter that has four inputs.
- Device provides a radio interface to remotely collect utility consumption from up to four (4) separate pulse meters (any combination of gas, water and/or electric).
- Device can connect to new or retrofit meters including: (sample list)
 - Water Meters with pulse output:
 - Badger
 - Elster (AMCO)
 - Master Meter
 - Neptune
 - Norgas
 - SENSUS
 - Gas Meters with pulse output:
 - Dattus
 - Itron Metris
 - Norgas
 - Electric Meters with pulse output:
 - Leviton
 - E-Mon
- Channel 1 and 2 can interface to either dry or wet contact pulse inputs.
- Channel 3 and 4 can interface to only dry contact pulse inputs.
- Radio is compatible with H2O Degree secure wireless 2.4 GHz mesh network.
- Device can be installed up to 1,000 feet from gateway.
- By using a magnet, the installer can force a radio transmission and receive a LED sequence feedback on radio connectivity in real time.
- Device software can be updated over the air.
- Types of packet data reported:
 - Consumption Packet (60 minute interval default)
 - Health Packet (120 minute interval default)
- Non-volatile memory maintains last reading in the event of a power failure.
- 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)
- Five year warranty.



Overview

The H2O Degree M54130 pulse counter monitors and records pulses from utility meters to determine energy consumption.

The device is designed to support water, gas and electric pulse meters.

The pulse counter device uses a wireless transceiver to report consumption.

There is a 32-bit unsigned cumulative pulse counter register for each of the four channels. The pulse counter continues to count pulses even if the radio is unable to transmit the data.

Compatibility

- Electric meter w/pulse output
- Water meter w/pulse output
- Gas meter w/pulse output

Ordering Information

Model	Description
M54130	Line Powered Pulse Counter - Indoor (4 channels)
M54130-O	Line Powered Pulse Counter - Outdoor (4 channels)
PS1001	120 VAC to 9 VDC Wall Plug power supply
PS1007	24 VAC to 12 VDC Slip-In 250 ma power supply

Technical Specifications

Electrical

Voltage input 9 to 15 volt DC
 Current input 45 milli-amps typical, 250 milli-amp max

Regulatory approvals

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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

Installation indicators

Hall Cell used with magnet to test successful radio connection
 Two LEDs (green and red) to indicate successful radio connection

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

Five Years

Wiring & Installation Information

