



M54130 Four Channel Pulse Counter

Pulse Counter

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

Features

- The H2O Degree M54130 is a wireless pulse counter that has 4 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 electric.)
- Device can connect to new or retrofit meters including: (sample list)
Water meters with pulse output:
 - Badger
 - Elster (AMCO)
 - Master Meter
 - Neptune
 - Norgas
 - SENSUSGas meters with pulse output:
 - Dattus
 - Itron Metris
 - NorgasElectric 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.
- 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.
- Five year warranty.



Ordering Information

Model

M54130
M54130-O
PS-1001
PS-1007

Description

Four Channel pulse counter radio (requires power supply)
Four Channel pulse counter radio in outdoor enclosure (requires power supply)
120 VAC to 9 VDC power supply
24 VAC to 12 VDC power supply

9/2015

H2O Degree

3580 Progress Drive, Suite L
Bensalem, PA 19020

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M54130 Four Channel Pulse Counter Technical Specifications

Electrical

Voltage input 9 to 15 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

Installation indicators

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

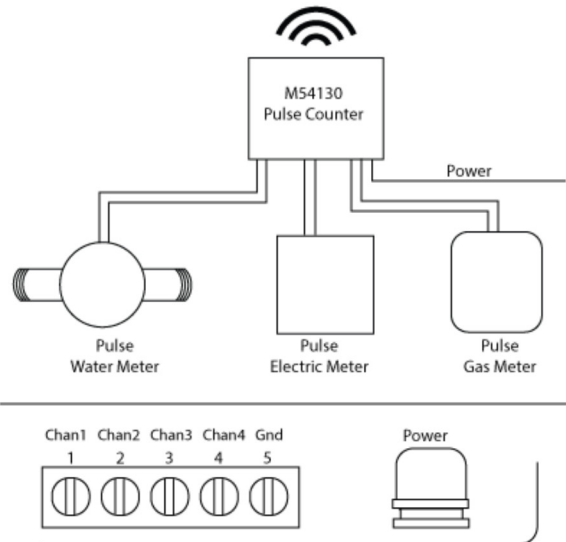
Physical

(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 Instructions



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