

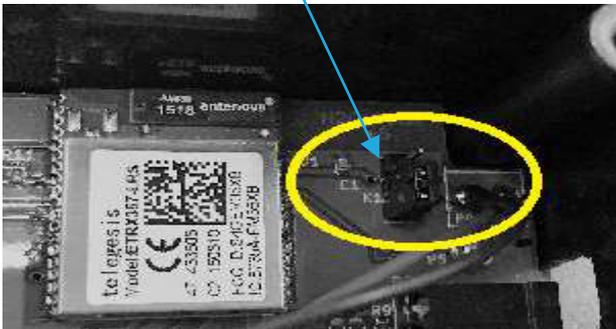
## M54230 User Guide

The M54230 is used to count the pulse output from water, gas or electric meters. The pulses are counted by the output signal wires attached to the water, gas or electric meters.

Each M54230 pulse radio can handle the pulses from two water, gas or electric meters. On the pulse meter radio there are terminal channels numbered 1-2.

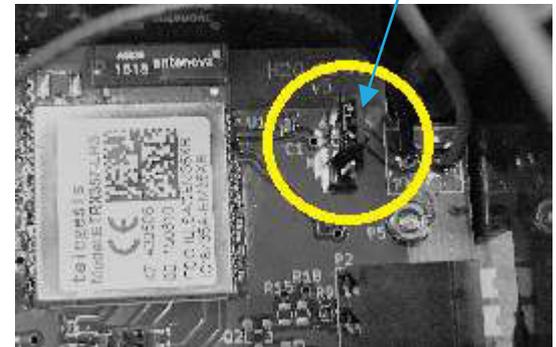
**Step 1:** To power up the unit there is a jumper located on the right hand side of the circuit board. The M54230 comes with the jumper in the off position. To turn it on move the jumper up one peg. You will see the LEDs come on. After placing the jumper in the correct position put the housing back on.

Jumper OFF position



Jumper on circuit board **MUST** be changed from OFF position to the ON position !!!

Jumper ON position



**Step 2:** The installation of this device requires that it is mounted correctly through the flange mounting holes on the backing of the plastic.

Mounting holes

! ION Pulse counters will work with any "dry contact", also know as volt free device and will work with the most dry contact with resistance. If you device has a "wet contact" AKA "wetted" or having voltage, please contact ION to make sure your device will work.





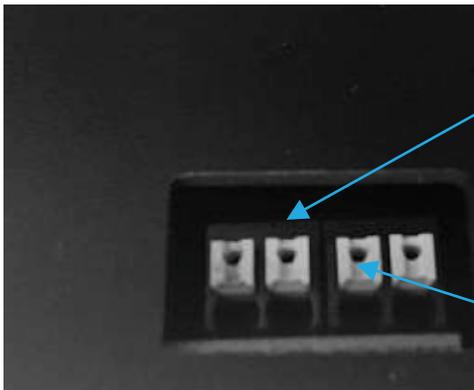
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**!** Mount the M54230 pulse radio to a wall within 8 feet of the water, gas or electric meter(s) !!!

**Step 3:** Make the connections from the water, gas or electric meter to the pulse radio. We recommend wiring the water, gas or electric meter pulse output to the M54230 pulse radio using the 2 conductor cable 22 AWG no longer than 8 feet.

Use wire nuts to connect the water or gas meter pulse output wire to the wire going to the M54230 pulse radio. See pictures below for how the push connection terminals are used.



Signal wires are to be inserted here. Solid core wires push directly into the terminals. Stranded wires **MUST** be twisted before inserting into terminals. To insert stranded wire, press and hold down the white box then release. Check wires to make sure connection is good.

To release the wires from the terminals, press and hold the white slotted box down and pull the wire out.

- One signal wire from the water or gas meter is the pulse output. Strip back the insulation of the wire ¼" then connect this wire to channel 1. The terminal channel is push to connect.
- Connect the other output signal wire also stripped back ¼" from the water or gas meter to channel 2. The terminal channel is push to connect.

**Step 4:** All connections should be made from the water, gas or electric meter to the pulse radio from ION.

**Step 5:** Magnet the M54230 pulse radio and check that the LEDs flash 4 greens or red and green alternately. If you get 4 green LEDs flash then the radio is now connected to the network on the property and working properly, move on to Step 6.

If the you get alternating green and red LEDs then the radio can't find the network due to an infrastructure issue. Contact ION for further instructions if the meter doesn't join the network after multiple tries with a magnet.

**Step 6:** Remove the serial number sticker on the pulse radio meter housing and locate the correct place on the sticker sheet to put the serial number sticker. Make sure to write down the channel number that is associated with that serial number sticker.

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