

Installation Instructions for *PulsePoint* Gas Meter Sensors

These instructions describe field or shop installation for RIO Tronics Corp PulsePoint gas meter sensors, designed for fast, reliable pulse unit installations onto domestic gas meters from American/Canadian meter, Invensys/Rockwell, and Schlumberger/Sprague.

Meter Applications:

Elster/American/Canadian- all circular read, and direct read for Class 175-250

Sensus/Rockwell- circular read for Class 175/250/400

Itron/Actaris/Sprague- circular read and direct read for Class 175/250/400

1) Remove Index Cover

2) Remove Index

3) Snap on Magnet Assembly

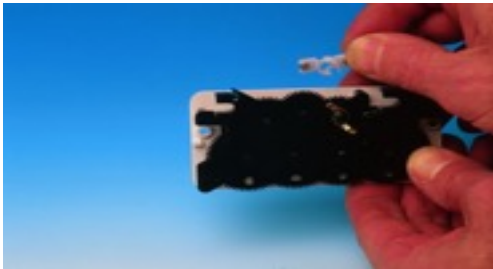
American and Invensys Indexes use the same flat type magnet assembly, which snaps onto the drive shaft of the index. The Schlumberger magnet assembly is the shaft with T type magnet carrier assembly. See the below pictures. Snap on the magnet assembly to the index drive shaft, on the back side of the index, with the retaining tabs **facing** the index. Rotate the drive shaft, and **adjust** the spring clip on the shaft to ensure that the assembly does not touch the index back through a complete revolution.



Elster/American Meter Magnet Assembly



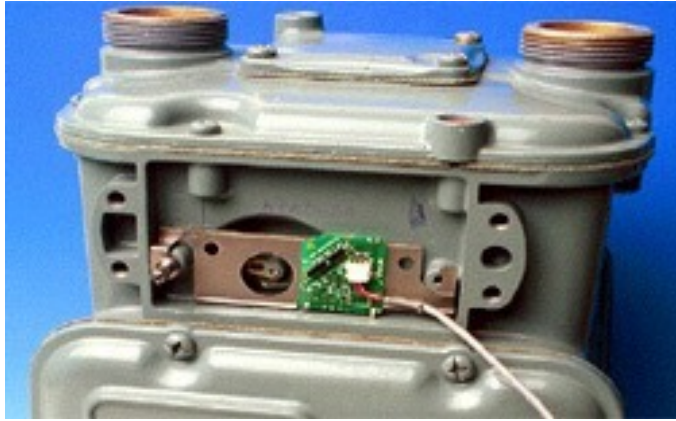
Sensus/Rockwell Magnet Assembly



Itron/Sprague Magnet Assembly

4) Position Switch Bracket onto meter between meter and index, aligning the bracket with the index screw holes

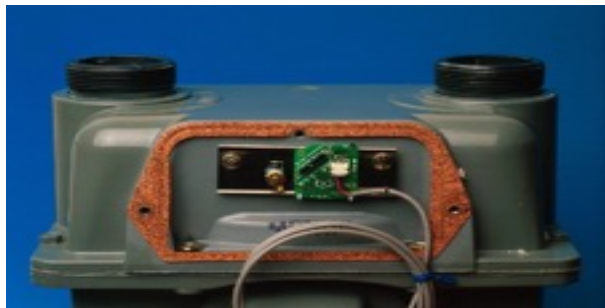
Refer to the photos below for correct bracket and alignment:



Elster/American Meter Bracket Alignment



Sensus/Rockwell Bracket Alignment



Itron/Sprague Bracket Alignment

5) Secure the switch bracket between the index and the meter, and re-mount the index.

For American: use the extended index mount screws, and ensure the index drive pin aligns properly with the meter drive. View the index assembly from below to ensure alignment, and turn the test dial on the face to confirm drive pin alignment

Invensys/Rockwell: Mount as shown in photo above, using original index screws

Schlumberger/Sprague: Mount bracket with one index screw loosely secured, align the index, and secure both index screws. Ensure the proper index drive pin alignment with the meter drive.

6) Drill the index box with a 7/32" hole for the wire grommet. Use a side or bottom location on the index box for weathering.

Exit the wire through the grommet, and use a lubricant as silicone or WD40 to help the wire through the grommet.

7) Secure the index box with its original screws and gaskets.

8) To test the output from the PulsePoint:

Run the meter through at least 2 cu feet of consumption, and check for pulse actuation with a multimeter- connect the red and black

leads from the PulsePoint to the test leads, and confirm the change from 100 ohms to infinite for each contact closure.

9) Connect to the host recorder, data logger, AMR device: The red and black wires are the pulse output, without polarity. The bare,

wire is shorted to the black wire, and may be used to monitor continuity with the black wire as a wire tamper detection option.