



Pressure, Level & Temperature Products

USER'S MANUAL

Replaceable Hammer Union Sensor with Autoclave Fitting

1.0 Introduction

This manual is for the replacement of the sensor and electronic sub-assembly for replaceable hammer unions that use the autoclave fitting.

2.0 Tools Needed:

Circlip Pliers (3-10mm)

¼ Socket Screwdriver

Torque Wrench with 1 ³⁄₈" Open Head

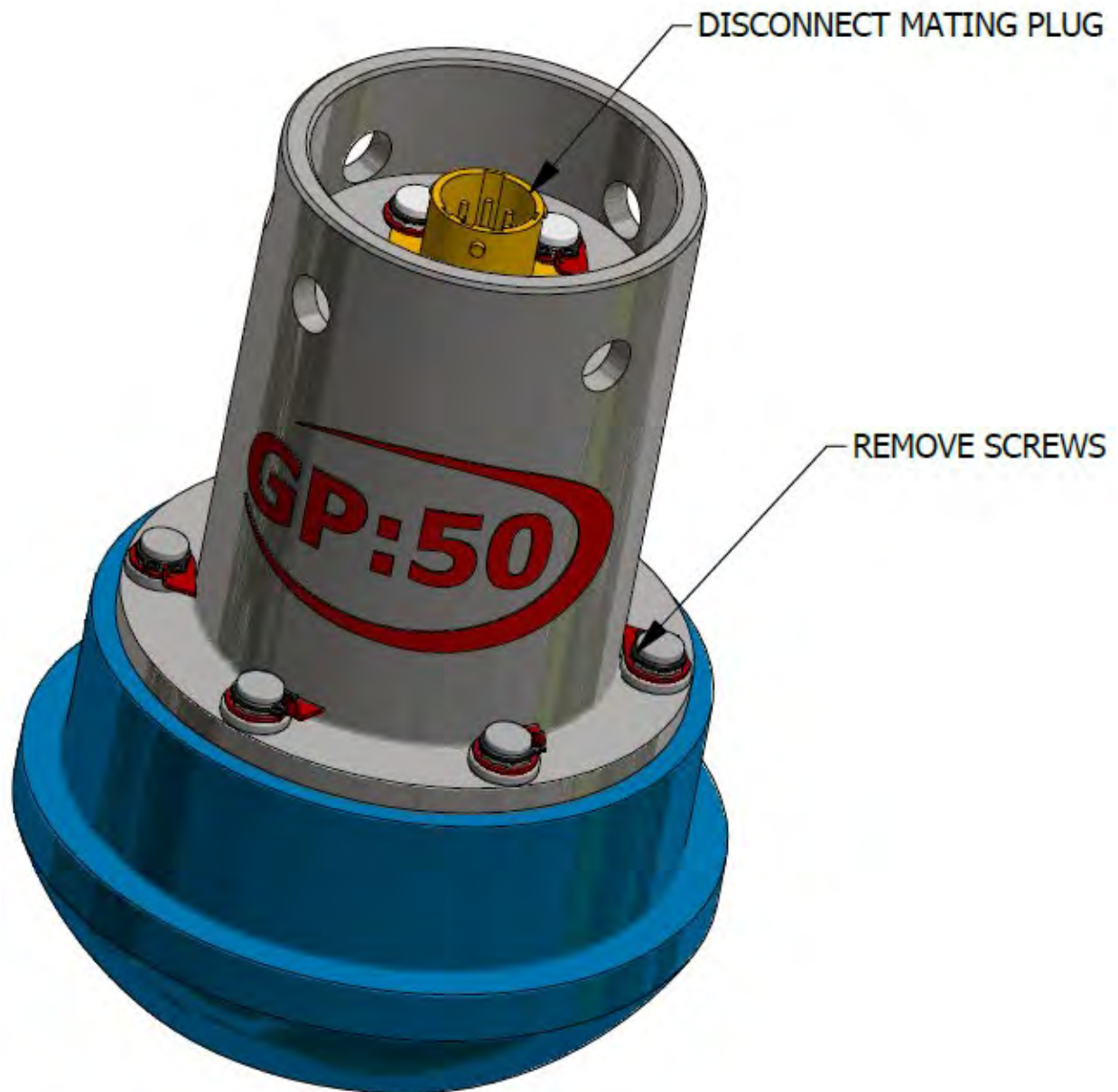
Allen Wrench Set

Multi-Meter/ IR tester



3.0 Steps: (Save all parts as they will be needed for re-build)

1. Disconnect Connector

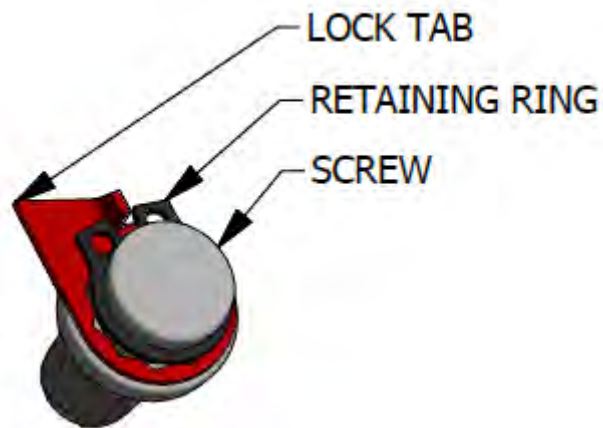




Pressure, Level & Temperature Products

2. Remove Screws

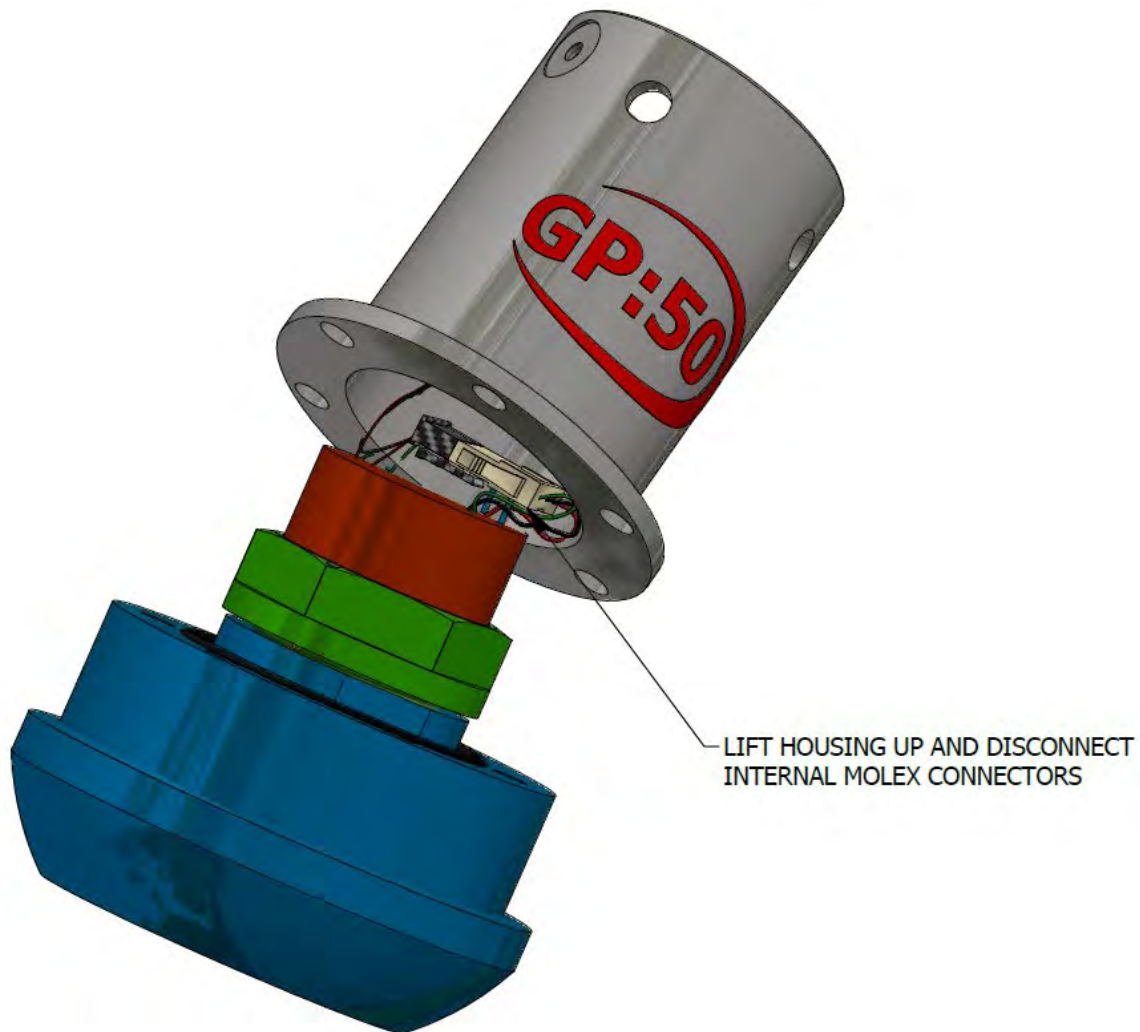
- a. Remove Retaining Ring by using Circlip Pliers
- b. Remove Lock Tab (notice placement of Lock Tab)
- c. Remove screws using Socket Screwdriver





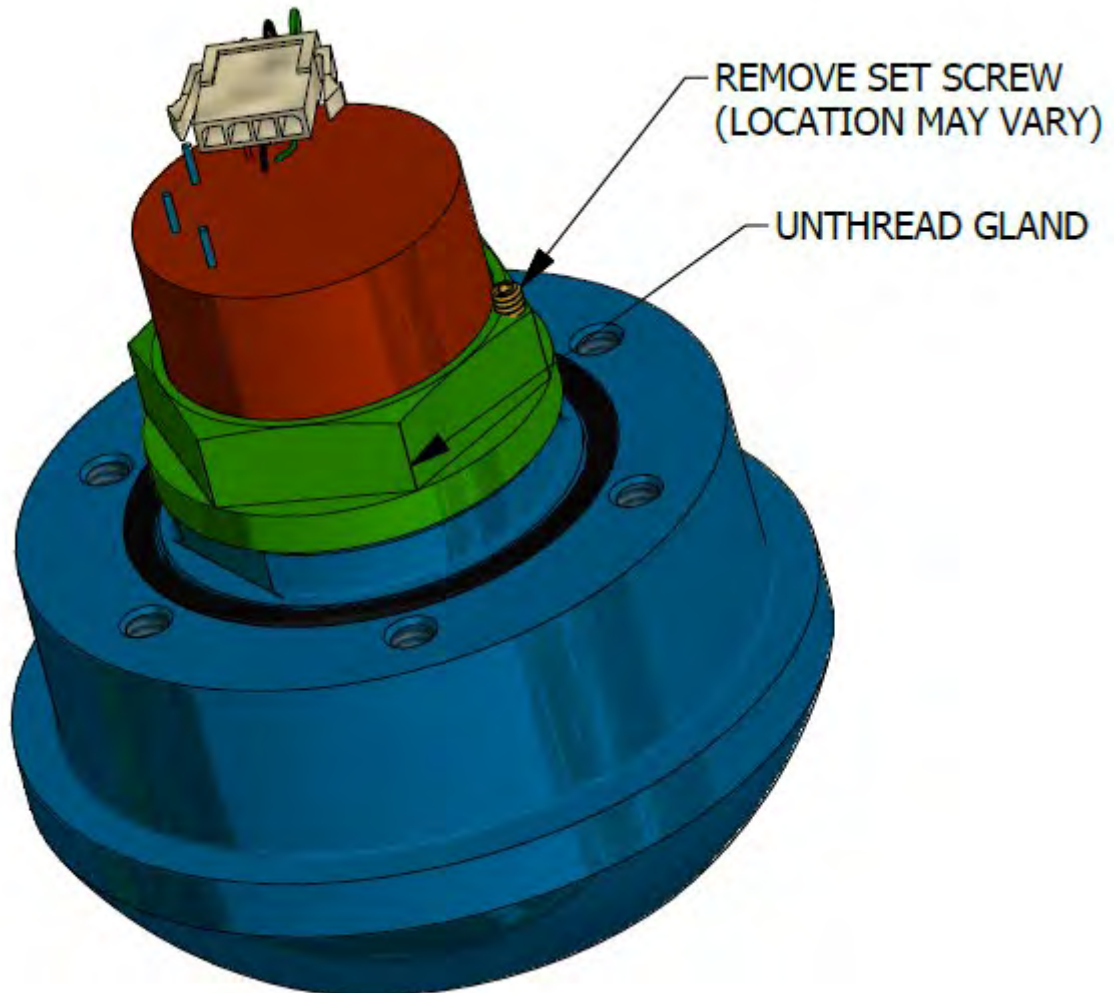
Pressure, Level & Temperature Products

3. Remove Housing
 - a. Disconnect internal Molex connectors
 - b. Place carefully in a location where wires will not be damaged





4. Remove Set Screw and Gland
 - a. Find and remove set screw
 - b. Unthread and remove Gland*



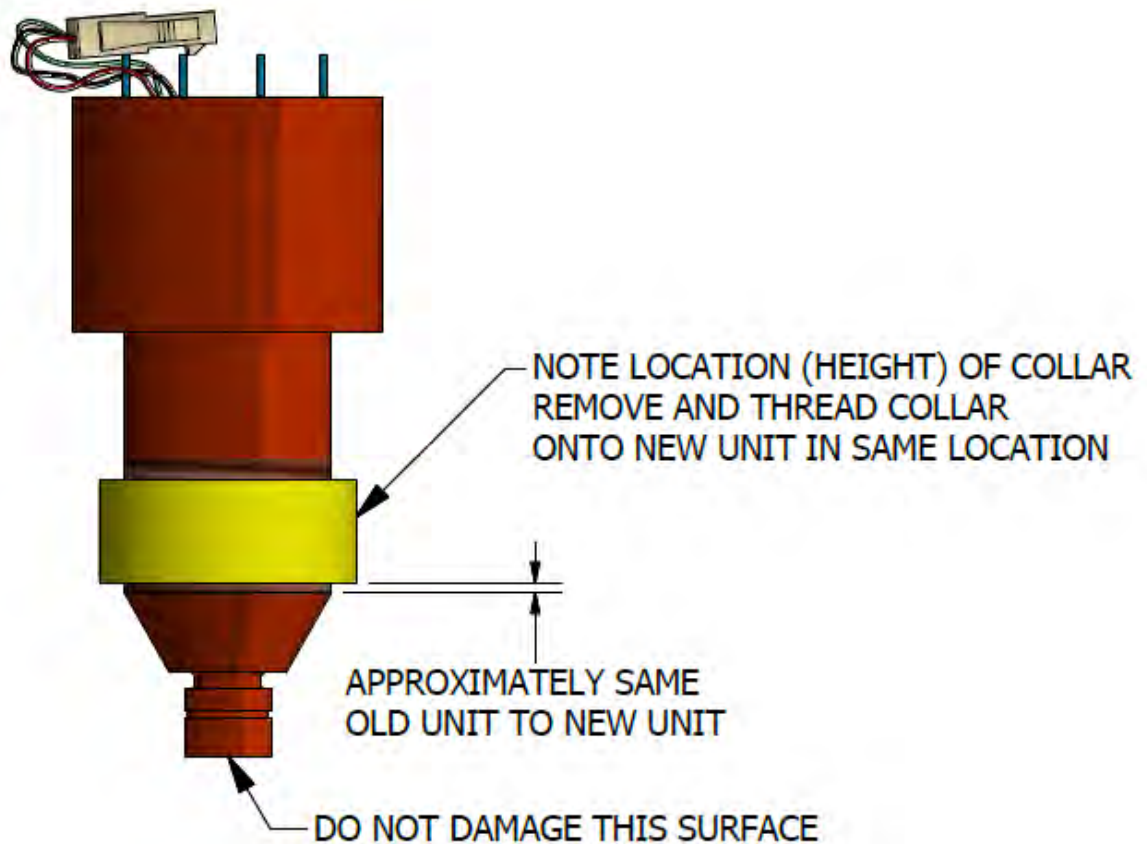
*When removing the Gland, install Hammer Union base with its nut to keep the base from moving



Pressure, Level & Temperature Products

5. Remove old sensor body

- a. Unthread Collar – take notice where collar is. This will need to be the same on the replacement Sensor



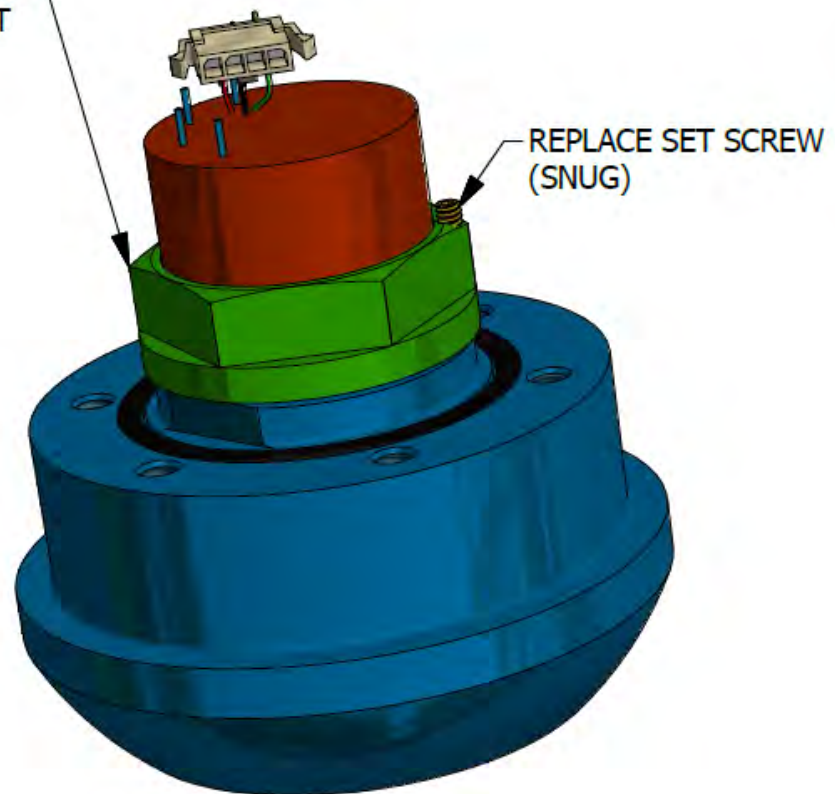


Pressure, Level & Temperature Products

6. Replace Collar onto new unit

- a. Make sure new unit is properly placed into Hammer Union Body and torque Gland down to 130 LB-FT
- b. Replace set screw

PLACE UNIT IN BODY
THREAD GLAND BACK ON
TORQUE TO 130 LB-FT



When installing the Gland, install Hammer Union base with its nut to keep the base from moving

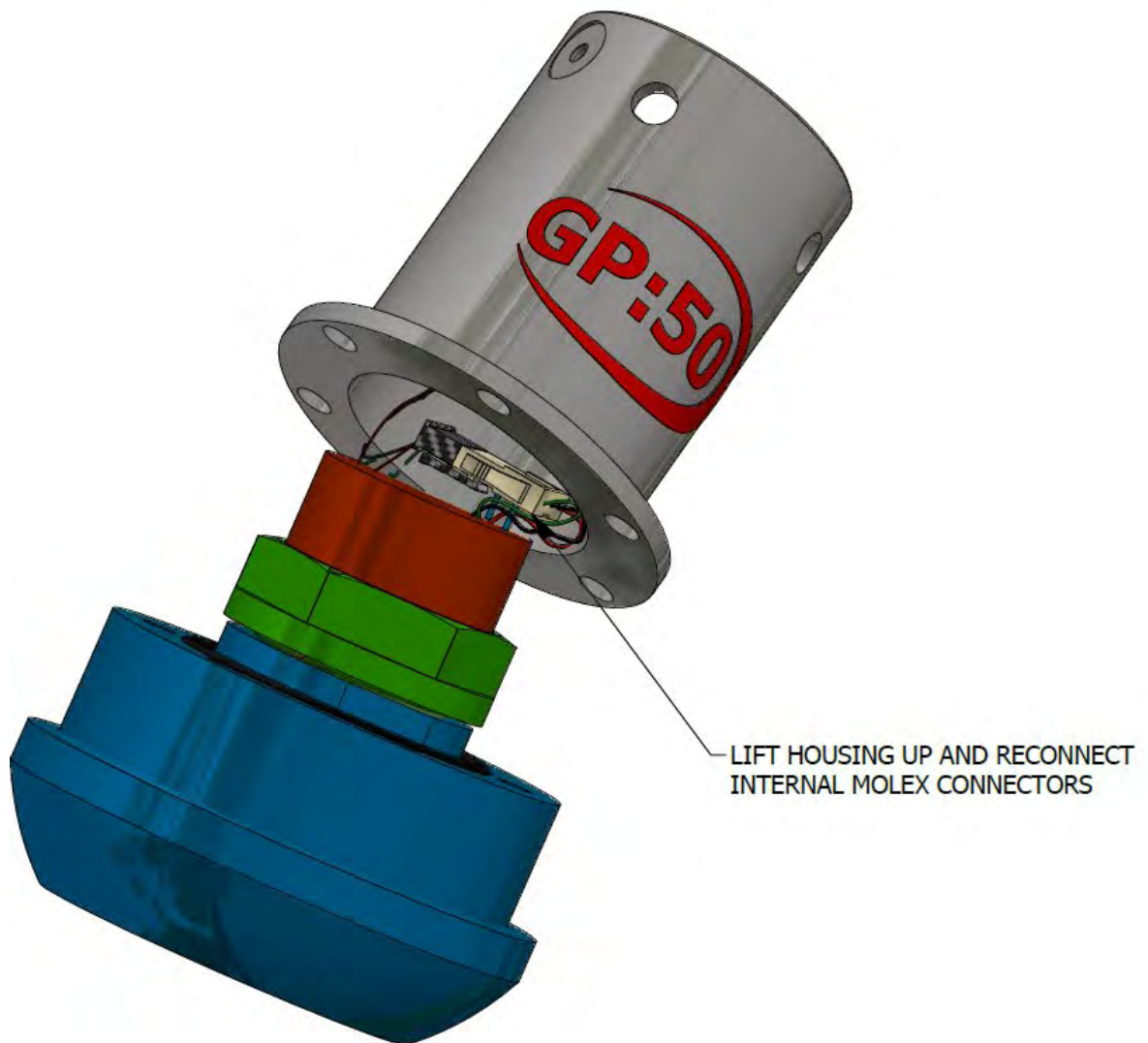
7. Proof Pressure Unit

- a. Slowly take unit to proof pressure to ensure no leaks. If leak is present, release pressure, unthread Gland, rotate new sensor and repeat steps 6 and 7. If there are no leaks, check torque to ensure Gland did not loosen. Repeat proof pressure test 3 times checking for leaks. If no leaks, continue on.



Pressure, Level & Temperature Products

8. Replace Housing
 - a. Lift Housing up and re-connect Molex connectors
 - b. Do no pinch or cut any wires

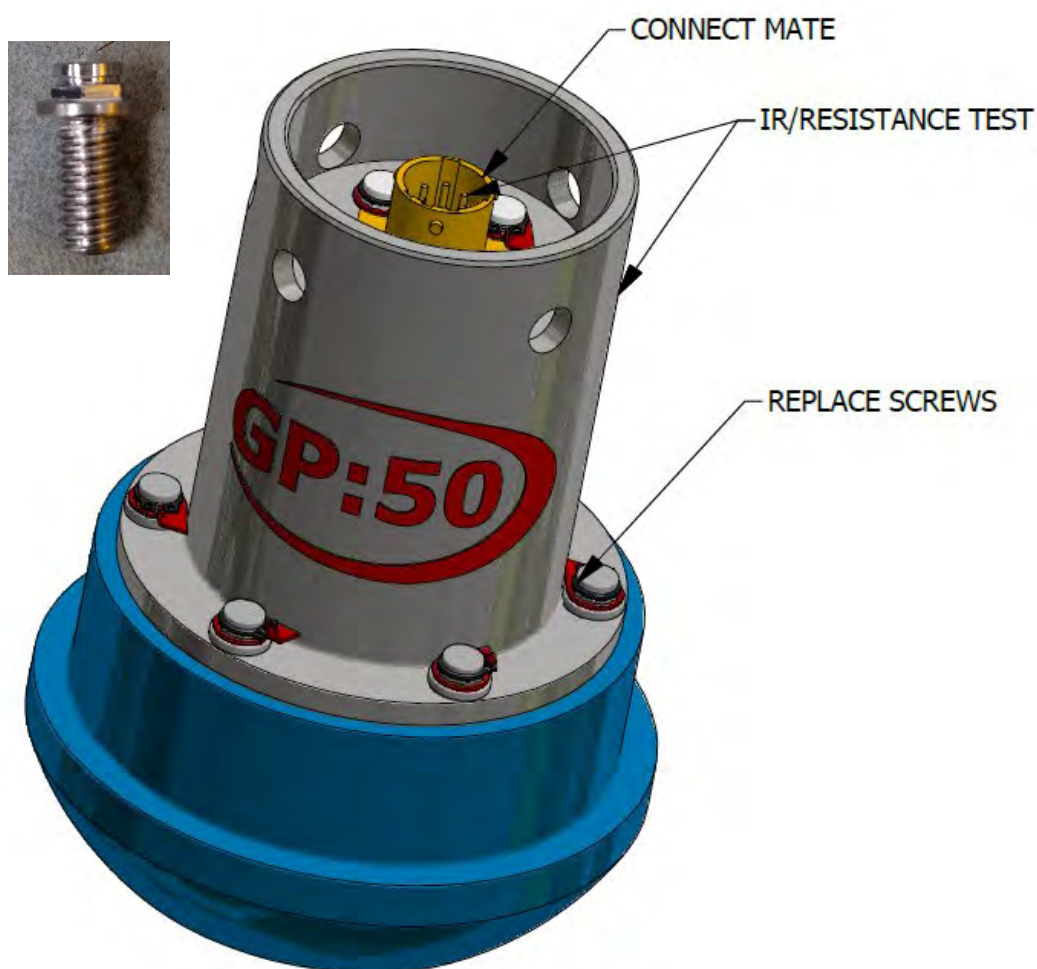




Pressure, Level & Temperature Products

9. Secure Housing (Do no pinch wires)

- Thread all screws back on, loose at first, and then tighten once all screws have started
- Once screws are hand tight, replace Lock Tab in most counter-clockwise position (so housing keeps it from unthreading)
- Replace Retaining Ring on each screw as shown in step 2. The opening in the Retaining Ring should be between the lifted up section of the Lock Tab. Retaining Ring should fit into groove located on screw



10. Replace Connector

- Perform IR test at 50VDC ($>100M\Omega$) on each pin individually to case. If IR test is not possible, measure resistance (should measure as open)
- Ensure unit has proper output