



BOX 1

FARO Gage and Hardware Instructions

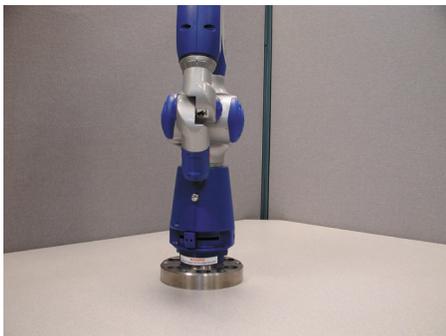
1. Remove the round Surface Mount Plate from the FARO Gage case.



2. Remove the Probe case. In addition to probes, this contains cap screws and two wrenches.

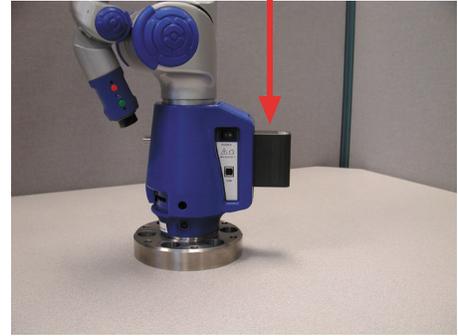


3. Attach the Surface Mount Plate to your measurement surface. Use a clamp, or the six cap screws. Remove the FARO Gage from the case and place it onto the Surface Mount Plate.



The FARO Gage secures to the Surface Mount Plate using a locking collar. Tighten the locking collar using the 12mm wrench.

4. Install the battery. Slide the battery pack in and down until it clicks.

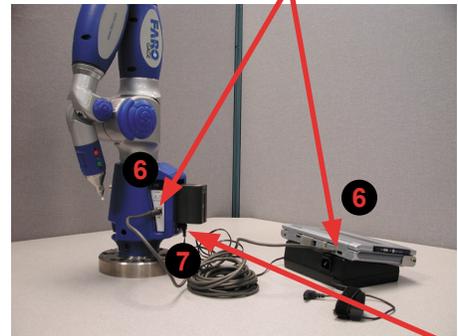


Caution: Do not apply power to any component in the system until all of the cables have been properly connected.

5. Attach a Probe and tighten with the 12mm wrench.



6. Remove the FARO Gage Computer from the case. Connect the FARO Gage to the computer with the supplied USB cable.

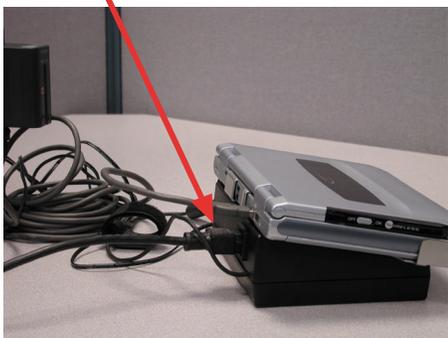


7. Connect the power cord to the FARO Gage.

8. Connect the FARO Gage Computer power cord to the FARO Gage Computer.



9. Connect the FARO Gage system to your source of power.



10. Open the computer. Switch on the FARO Gage and then the FARO Gage Computer.



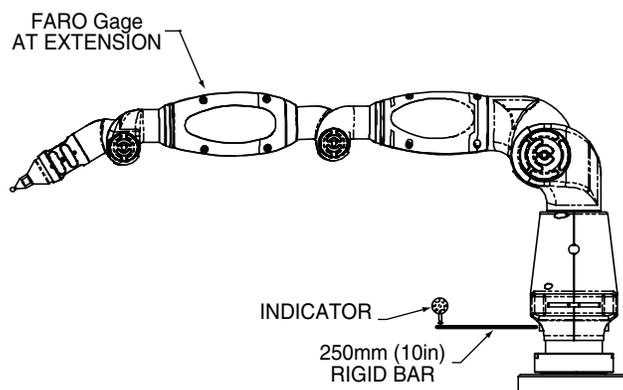
After applying power to the FARO Gage, the LED is Solid Green while an internal startup check runs. After this is complete, the LED indicates the following:

- Flashing Red - if the FARO Gage successfully communicates with the computer, and the encoders are not referenced.
- Off - if the FARO Gage successfully communicates with the computer, and the encoders are referenced.
- Solid Green - if the FaroArm successfully communicates with the computer, and the encoders are referenced - Renishaw Probe only.

MOUNTING THE BASE

Test the stability of the mount with a dial indicator. Attach a rigid bar, (approximately 250 millimeters/10 inches) to base of the FARO Gage. Remove either screw, that holds the outer plastic cover in place, from the side of the FARO Gage using a #4M hex wrench.

Note: The bar must have a 6M thread on one end to connect to the FARO Gage.

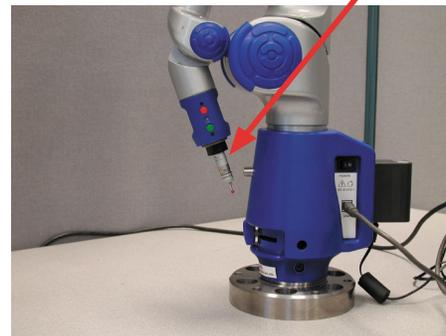


Measure the deflection of the bar when the FARO Gage is fully extended. The angular deflection and lateral deflection of the base must not exceed the values in the following table.

Angular deflection	Lateral deflection
<<<: 10 micro inches/inch	<<<: 0.00005 inches
<<<: .254 $\mu\text{m}/\text{mm}$	<<<: 1.27 μm

RENISHAW TP20 PROBE (OPTIONAL)

1. Assemble the TP20 body, head and probe. See the Renishaw TP20 users guide for more information.
2. Remove the set screw using the supplied allen wrench and thread the TP20 into the FARO Gage handle.





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3. Create new probe.
 - In the FARO Gage software, Choose Gage Setup<Probe Calibration.
 - Touch the Edit button.
 - Enter a new name, and probe diameter.
 - Touch the Active check box in the Handle Auxiliary Switch area.
 - Touch the Create New button.
4. Replace the FARO Probe Calibration cone with the sphere from your probe case. Use the 12mm wrench to tighten the sphere to the base.
5. Calibrate the probe using the Sphere Method.