S1015 — Percentage Oxygen Analyzer Calibration Procedure

PROBLEM

- Oxygen Analyzer not showing correct reading
- Someone disturbed "Cal" knob
- You have just replaced a new sensor in the analyzer
  (learn how to change the sensor – read Service
  Bulletin #1014 / Youtube : https://youtu.be/9Ob5hhZBA38)

SOLUTION

Percentage oxygen analyzer will require calibration

REQUIRED TOOLS

Zero oxygen gas calibration cylinder, Compressed air cylinder, Filter pressure regulator

PROCEDURE

⚠ ADVISORY   Turn off analyzer before conducting any service

Connect Zero oxygen gas cylinder to filter pressure regulator

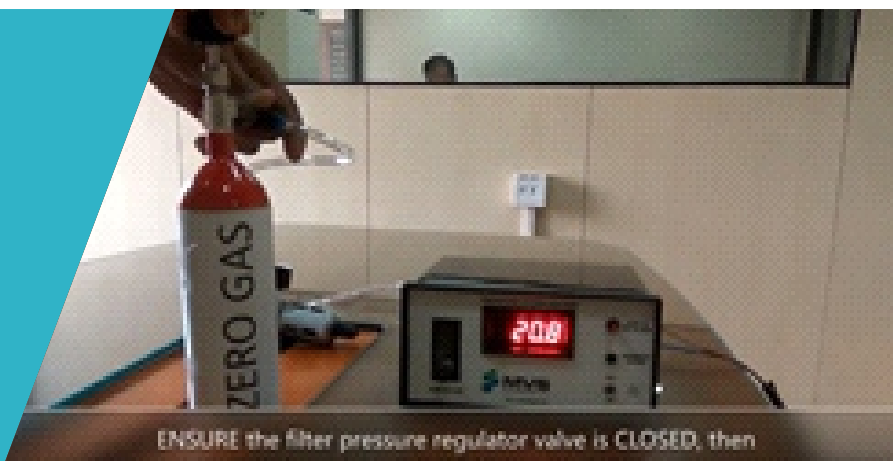- Connect a tube between the filter pressure regulator and the analyzer

From the filter pressure regulator the tube will need to be inserted into a port on the back of the oxygen analyzer with LABEL - IN

From the FILTER PRESSURE REGULATOR, connect the tube to the port

- Ensure the filter pressure regulator valve is closed

- Turn ON the Analyzer

Slowly open the valve on the calibration cylinder

ENSURE the filter pressure regulator valve is CLOSED, then

After lifting the cap of the valve, slowly turn the valve of the filter pressure regulator to allow gas to flow at pressure less than 0.5 bar(g)

SLOWLY open the valve of the filter pressure regulator to allow gas to

Once pressure is showing on the gauge, but less than 0.5 bar(g), lock the filter pressure regulator valve in position by pushing down on the cap

Once pressure is built BUT less than 0.5 barg, LOCK the pressure

Observing the flowmeter on the front of Analyzer, allow around 1-2 LPM gas to flow through

Using the FLOWMETER on front of the analyzer, allow around 1-2 LPM gas to flow through

SAMPLE FLOW

- Wait for 5 minutes for reading to stabilize

- Unlock the Zero Knob by sliding the black lock upwards

Adjust the reading by turning the zero knob until the display reads "00.0"

Adjust reading by turning the ZERO KNOB until the display

- Lock the Zero Knob by sliding the black lock downwards

- In the next steps, only the cylinder needs to be changed. You do NOT need to touch the filter pressure regulator or the connecting tube between the filter pressure regulator and the analyzer
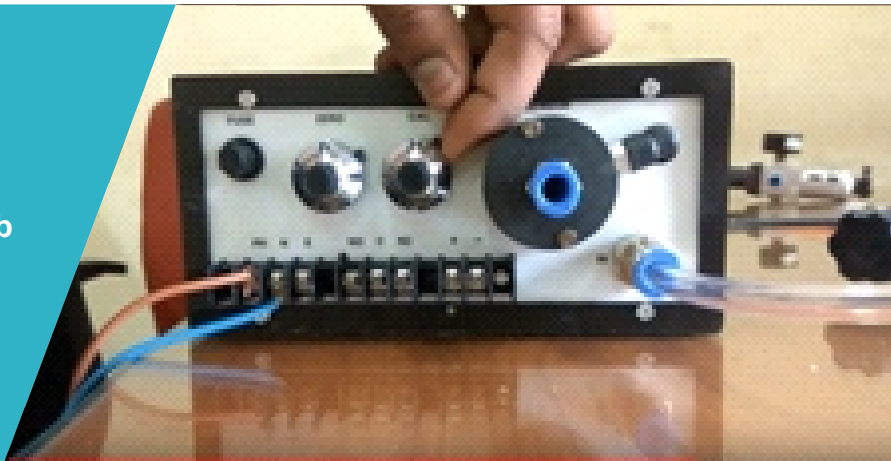
- Close cylinder valve and remove zero oxygen gas cylinder

Connect compressed air gas cylinder and slowly open valve

- Allow 1-2 LPM compressed air to flow through
- Wait for 5 minutes for reading to stabilize

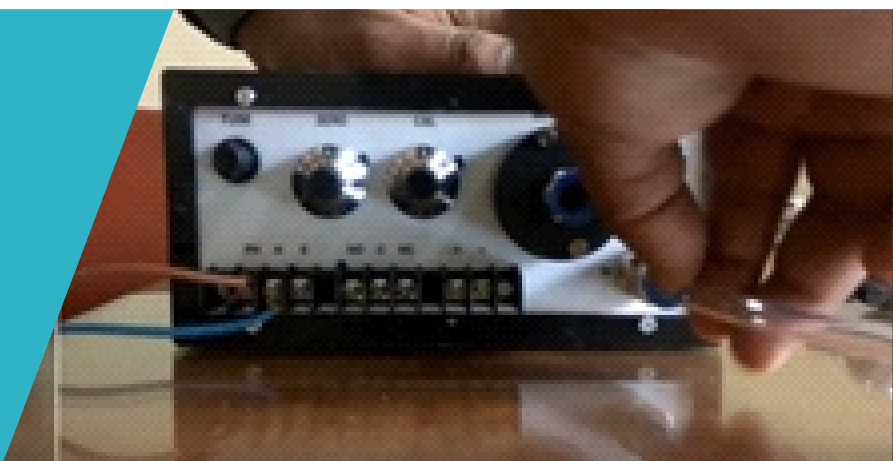**Unlock the black lock of the "CAL" knob**

Adjust the CAL knob until the reading is close to "20.9"

- Lock the black lock of CAL knob back in place
- Shut off the compressor air cylinder valve

Remove the calibration gas tubes and disconnect the filter pressure regulator from the analyzer

- Calibration is now complete

PLEASE WATCH THE VIDEO, LINK BELOW

https://youtu.be/2Zjc2anLiv4