

# **VANDAGRAPH COMPANY OPERATING PROCEDURE**

## **Calibration Procedures Helium / O<sub>2</sub> Analyser. Mixcheck**

**VM3/COP/40.56**

Date: 25-Apr-03

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Issue 1

### **Helium / O<sub>2</sub> Analyser: O<sub>2</sub> Assembly, Test and QA Procedure.**



1. Switch on the Helium / Oxygen Analyser and select Battery Test. Ensure the analyser shows greater than 110 hrs of battery life remaining on the display For the duration of calibration use external mains PSU.
7. Run 100% oxygen through the sample tube at 2 LPM. Ensure that the gas runs for a sufficient length of time to purge the analyser of all traces of other gases. Set the analyser to read 100.0% oxygen by adjusting the O<sub>2</sub> Span control.
8. Note the Helium reading
9. Run air through the sample tube at 2 LPM. Ensure that the gas runs for a sufficient length of time to purge the analyser of all traces of other gases. Ensure set the analyser to read 21.0±1.0% oxygen
10. Set the Zero control to read 00.1% helium by adjusting the Helium Zero control. NB If the control is turned anti-clockwise when the reading is zero it will not go -ve. It is important that zero is set to 00.1 to 00.3
11. Run 100% helium through the sample tube at 2 LPM. Ensure that the gas runs for a sufficient length of time to purge the analyser of all traces of other gases. Calibrate the analyser to read 100.0% helium by adjusting the Helium Span control.
12. This control increases the reading by turning it anti-clockwise.
13. Run a known Helium / Oxygen mix, through the sample tube at 2 LPM. Ensure that the gas runs for a sufficient length of time to purge the analyser of all traces of other gases. Ensure the analyser shows readings of helium / oxygen ± 1% of that from the cylinder
14. Run air through the sample tube at 2 LPM. Ensure that the gas runs for a sufficient length of time to purge the analyser of all traces of other gases. Switch the analyser off.