

COMPANY OPERATING PROCEDURE

Incoming Sensor Returns Testing VM3/COP/40.02

Date: 5-Nov-03

Revision Date: 15-Aug-11

Issue: 1

Procedure

- 1.0 Initially, read carefully any information supplied by the user.
- 2.0 If it is a telephone problem, then listen carefully, ask exact questions as to how the sensor is being used; whether;
 - a) VN202
 - b) Other Analyser
 - c) Re-breathers
 - d) Mixing panels
- 3.0 Refer to the Reference book "Oxygen Measurement for Divers" for information on:
 - Sensor Linearity - Chapter 10
 - Check "20.9%"
 - Check "100%" - Read chapter 20 - Calibration
 - Blowing across the sensor uses the CO₂ to generate a low PPO₂ to pull the Oxygen out of the Sensor. Ensure the reading is "20.9%"
 - Temperature – Chapter 11
 - Diving cylinders use 200 Bar pressure and the gas released will be at very low temperature (page 58).
 - Accuracy – Chapter 13, and Sensor Outputs – Chapter 15
 - Response Time.
- 4.0 Basic checks required:
 - Visual: - Leakage, Mechanical damage, Membrane damage
 - Linearity checks
 - End of life test: - Leave in "100%" O₂ for several minutes.
 - Stability Test: - Leave in air overnight.