

## VM3COP43.10 Maxtec Handi+ Calibration Test Procedure

① Before using this procedure, the user is advised to familiarise themselves with the operation manual. The user should have a basic understanding of the function of Oxygen monitors. This procedure tests the Maxtec Handi+ Oxygen analyser can read accurately. A calibration must be performed before each use as environmental factors can affect the reading.

Equipment needed to perform this procedure:

- Calibration assembly (Part number:0121205)
- A source of medical Oxygen (purity 99.5%)
- A source of medical air with a known Oxygen content.



- 1) A protective film covering the threaded sensor face must be removed and the sensor allowed to "breathe" for at least 30 minutes.



- 2) Affix the flow divert to the thread on the bottom of the sensor.



- 3) Insert the flow diverter into the calibration assembly.
- 4) Connect the flexible gas tubing to an Oxygen source.
- 5) Allow Oxygen to flow over the sensor surface at rate of 2 litres per minute.
- 6) Allow at least 2 minutes of Oxygen flow before calibrating the device.



- 7) Power up the analyser using the on button located on the front of the device.
- 8) Press the CAL button on the Handi+. The calibration gas value on the analyser display should read 0.0.0 (100%).
- 9) Record the value on the calibration certificate.



- 10) Connect the flexible gas tubing to a dry air source.
- 11) Allow dry air to flow over the sensor surface at a rate of 2 litres per minute.
- 12) Allow at least 2 minutes of air flow.
- 13) Observe the reading on the Handi+, which should read 20.9  $\pm$ 1.
- 14) Record the value on the test certificate.

