

COMPANY OPERATING PROCEDURES**TED200T7 (PN 0111200)
O₂ Analser Test Procedure**

VM3/COP/38.02

Date: 30-Jan-03

Revision date: 11-Jul-11

Issue: 3

Test Equipment Required

Oxycal.

Method

1. Take the TED200 and T7 O₂ sensor out of their packaging and examine for signs of physical damage and leaking electrolyte from the sensor.
2. Fit the batteries and switch the TED200 on.
3. Ensure that the display shows 00 +/- 1% oxygen concentration. ⁽¹⁾
4. Switch the unit off.
5. Connect a calibrated oxycal to the TED200 (not the oxycal marked "for TED 191").
6. Switch the TED200 on and switch the oxycal to 21%.
7. Wait for "cal in 21%" prompt on the display and press the CAL button twice. The unit counts down from 10 to 0.
8. Wait for "cal in 100%" prompt on the display and switch the oxycal to 100%. Press the cal button twice. The unit counts down from 15 to 0.
9. Ensure a reading of 100 ± 1% oxygen concentration is displayed. ⁽²⁾
10. Switch the oxycal to 21%.
11. Ensure that the oxygen concentration displayed is 21 +/- 1%. ⁽²⁾
12. Disconnect the oxycal.
13. Connect the T7 O₂ sensor and ensure a displayed O₂ reading of 16% to 26%. ⁽³⁾
14. Test the upper alarm & threshold - press "set upper alarm" followed by " - " until the upper alarm threshold is below or equal to the displayed O₂ reading. Ensure that the upper alarm sounds (at two beeps/sec) and visual alarm indicator activates (at 2 flashes/sec). Ensure that the alarm cancel/delay operates correctly by pressing the silence alarm button and waiting the specified time until the TED200 re-alarms.

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Return the upper alarm set point to 100%.

15. Test the lower alarm & threshold - press "set lower alarm" followed by " + " until the lower alarm threshold is above or equal to the displayed O₂ reading. Ensure that the lower alarm sounds (at 1 beep/sec) and that the visual alarm indicator activates (at 1 flash/sec). Ensure that the alarm cancel/delay operates correctly by pressing the silence alarm button and waiting the specified time until the TED200 re-alarms.

Return the lower alarm threshold set point to 17%.

16. Carry out a alarm function test by pressing the alarm test button. Ensure that the alarm threshold counts up and down respectively and that the alarm sounds as appropriate.
17. Carry out a battery test. Ensure reading of over 950 hours left.
18. Switch off.
19. Disconnect the T7 fuel cell and cable. Repackage as per the T7 O₂ sensor test procedure (VM3COP37.52).
20. Remove the batteries from the TED200.
21. Label the TED200 with Viamed sticker if necessary.
22. Repackage the TED200 and accessories.
23. Label the box as necessary for UK or export.
24. Ensure that the TED200 and T7 O₂ sensor are booked out in the stock books.

- ⁽¹⁾ If the unit fails to show a suitable reading at this stage the TED200 is faulty. The unit and accessories should be repackaged and left at goods-in, in a docket with a note attached.
- ⁽²⁾ If the unit fails to show a suitable reading at this stage the TED200 is faulty. The unit and accessories should be repackaged and left at goods-in, in a docket with a note attached.
- ⁽²⁾ If the unit fails to show a suitable reading at this stage the T7 cell is faulty. The T7 cell should be repackaged and left at goods-in, in a docket with a note attached. The replacement T7 fuel cell should be tested as per the above procedure.