Vandagraph

Replacement of the OMS Professional Dive O_2 Analyser Using Vandagraph Teledyne R-22OMS

The following notes are a guide

1. Remove the rear cover by undoing the 4 screws.
2. Disconnect the battery.
3. Carefully withdraw the sensor connector lead from the sensor.
4. Unscrew the sensor from the case. The sensor may be tight due to the sealing “O” ring, and a tool such as a pair of large pliers or grip may be required to rotate the sensor.
5. Position the new sensor inside the case with the screw thread aligned with the hole in the case. Gently screw the sensor into the hole, taking care not to cross-thread. The sensor thread is plastic, and fine, so can be easily damaged. When the thread is finger tight, the sensor can be gripped carefully with a tool and tightened gently just enough to compress the “O” ring seal.
   Over tightening can damage either the thread or the “O” ring.
6. Replace the sensor connector, Ensure the connector is fully mated.
   If it is fitted upside down a –ve sign will appear when the unit is switched on.
7. Replace the Battery.
8. Replace the rear panel, taking care not to over tighten the screws.
9. Ensure that the sensor wires and connector do not foul the sensor location ring in the housing. Rotate sensor until it allows the rear panel to fit correctly.
10. Calibrate the outer calibration control to 20.9%.
11. Leave exposed to dry outdoor air for at least two minutes NB (All galvanic sensors can take an hour to fully stabilize after they have first been exposed to air to achieve maximum accuracy. This may be visible as a rising output)
12. Dispose of the old sensor according to local regulations for Lead and Potassium Hydroxide solution

The Vandagraph equivalent sensor is the R-22OMS

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