1 Introduction

These procedures must be carried out by a trained technician.

2 For more information

Further information is available from: www.abb.com/analytical

or by scanning these codes:

Sales  Service
3 Safety

**WARNING**

These procedures must be carried out by a trained technician.

**ELECTRICAL**

- Isolate all high voltage supplies to the transmitter before performing replacement procedures.
- The wet-section is vulnerable to electrostatic damage. Wear an anti-static strap or dismantle the wet-section on an anti-static workbench.
- Ensure all electrical connections are kept dry at all times.

**GENERAL**

- Shut off the external sample supply to the wet-section and drain the flowcell – refer to the wet-section Operating instructions ([OI/ADS550-EN](#)) for flowcell drainage options.
- When a procedure is complete, restore power to the transmitter and sample to the wet-section at the correct flow rate.
- If necessary, calibrate the wet-section – refer to the wet-section Operating Instructions ([OI/ADS550-EN](#)) for calibration instructions.
- Perform general cleaning of the wet-section using a damp cloth only – mild detergent can be used as a cleaning aid. Do not use Acetone or any organic solvents.
- Dispose of the old components in accordance with the guidelines contained in the Operating instructions ([OI/ADS550-EN](#)).

4 Disposal

**WARNING**

Dispose of the old components in accordance with the guidelines contained in the Operating instructions ([OI/ADS550-EN](#)).

5 Dissolved oxygen sensor assembly location

![Dissolved oxygen sensor assembly location](#)

Figure 1  Low level dissolved oxygen sensor location
Replacing the dissolved oxygen sensor

Part number: low level dissolved oxygen sensor assembly (AW502 080)

Removing the dissolved oxygen sensor assembly

Referring to Figure 2:

1. Disconnect (red) sensor connector A.
2. Unscrew clamping screw B and withdraw the sensor assembly from flowcell body C.
3. Carefully unscrew connector nut D from sensor E and withdraw connector body F.
4. Remove and discard O-rings G and H.

Figure 2  Removing the dissolved oxygen sensor assembly
Replacing the dissolved oxygen sensor

Fitting a new dissolved oxygen sensor assembly

**CAUTION**

- Only install the sensor immediately prior to use. The sensor has a limited shelf life and, ideally, should NOT be stored longer than 6 months. Store under cool conditions.

- Take special care to line up the two pins in the sensor with their respective sockets before making the connection and tightening.

- Take care not to damage the delicate membrane on the face of the sensor.

- Ensure that the mating surfaces (carrying the electrical connection) of the sensor and connector body are clean and completely dry.

- Do not overtighten the clamping screw.

1. Remove the top from the new sensor container.
2. Unscrew the protective cap from the rear of the sensor.
3. Refer to Figure 3:
   3. Fit the smaller of the 2 new O-rings A (3/4 in. ID) onto the connector body B.
4. Locate sensor C onto connector body B, ensuring the pins and sockets are engaged correctly and tighten connector nut D onto sensor C.
5. Insert the complete assembly into flowcell E, ensuring the larger of the 2 new O-rings F (7/8 in. ID) is fitted.
6. Screw in clamping screw G using finger-pressure only to secure the dissolved oxygen sensor assembly in the flowcell body.
7. Push (red) sensor connector H onto sensor connector block I firmly and tighten ONE TURN clockwise.

**Note.** Wet-section enclosure, oxygen sensor container and protective cap not shown for clarity.

![Figure 3](image-url)

**Figure 3** Fitting and connecting the dissolved oxygen sensor at the flowcell
...Notes