1 Introduction

This publication details the wiper module upgrade procedure for 4690 series turbidity sensors. The procedure must be carried out by a trained technician.

The contents of the wiper module upgrade kit are shown in Table 1.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wiper module</td>
<td>7998 140</td>
<td>1</td>
</tr>
<tr>
<td>Wiper blade (pack of 4)</td>
<td>7998 023</td>
<td>1</td>
</tr>
<tr>
<td>Cable gland</td>
<td>0216 580</td>
<td>1</td>
</tr>
<tr>
<td>This publication – Wiper module upgrade</td>
<td>INF11/064-EN</td>
<td>1</td>
</tr>
</tbody>
</table>

Table 1  Wiper module upgrade kit 7998 022

2 For more information

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

or by scanning these codes:

Sales  Service

Tools required

- Flat-bladed screwdriver
3 Fitting wiper module

1. Isolate the turbidity sensor from the power supply and sample supply.

2. Referring to Fig. 3.1:
   a. Remove wiper plug/module retaining collar 1 and retain.
   b. Remove wiper plug 2.
   c. Carefully remove the wiper module 3 from its packaging.
   d. Ensure O-ring 4 is undamaged and located correctly in wiper module groove.
   e. Ensure wiper blade 5 is undamaged and fitted correctly to the wiper arm 6.
   f. Carefully insert wiper module 3 into cell body, ensuring cut-out 7 in wiper module flange engages correctly with locating lug on cell body.
   g. Secure wiper module to cell body with retaining collar 1, tightening retaining collar hand-tight only.
3. Referring to Fig. 3.2:
   a. Release 4 captive screws (8) securing terminal box cover (9) and remove the cover.
   b. Remove M12 blanking plug (11) and replace with cable gland (supplied).
   c. Route wiper module cable (10) through terminal box cable gland (11).
   d. Connect the wiper module cable to the terminal box terminals as shown.
   e. Refit terminal box cover (9) and secure with 4 captive screws (8).

4. Restore the power supply to the turbidity sensor.
5. Change the sensor type in the 'Set up Parameters' page – see Section 8.3 of the User Guide (IM/4690–EN).