1 Introduction

This publication details the emitter module LED / lamp replacement procedure for 4690 series turbidity sensors. The procedure must be carried out by a trained technician.

The contents of the emitter module LED replacement kit are shown in Table 1 and the contents of the emitter module lamp replacement kit are shown in Table 2.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED – ISO infrared version for sensor systems 7998-011, 7998-012, 7998-016 and 7998-017</td>
<td>7998 126</td>
<td>1</td>
</tr>
<tr>
<td>End cap assembly</td>
<td>7998 021</td>
<td>2</td>
</tr>
<tr>
<td>This publication – Emitter module LED / lamp replacement</td>
<td>INF11/063-EN</td>
<td>1</td>
</tr>
</tbody>
</table>

Table 1 Replacement LED kit (ISO infrared LED version) 7998 044

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lamp – EPA white light version for sensor systems 7998-001, 7998-002, 7998-006 and 7998-007</td>
<td>7998 125</td>
<td>1</td>
</tr>
<tr>
<td>End cap assembly</td>
<td>7998 021</td>
<td>2</td>
</tr>
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Table 2 Replacement lamp kit (EPA white light version) 7998 032

2 For more information

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

or by scanning these codes:

Sales Service
3 Replacing emitter module LED / lamp

Note. Do not touch the LED / lamp, handle the LED / lamp using the retaining tabs (item 3 in Fig. 3.1) only.

1. Isolate the sensor assembly from the power supply.
2. Referring to Fig. 3.1:
   a. Unscrew and remove emitter and receiver module end cap assemblies 1 and discard.
   b. Disconnect the emitter LED / lamp connector 2 from receptacle J2 on the PCB.
   c. Gently squeeze retaining tabs 3 together and pull to withdraw LED / lamp 4 from its housing 5.
   d. Carefully remove the replacement LED / lamp from its packaging.
   e. Insert replacement LED / lamp 4 into housing 5 ensuring tab on LED / lamp 6 enters slot in housing. Press until LED / lamp clicks into place.
   f. Connect the emitter LED / lamp connector 2 to receptacle J2 on the PCB.

Note. The emitter LED / lamp connector and receptacle J2 are shaped to prevent incorrect connection.

3. Restore the power supply to the turbidity sensor.

continued overleaf...

Fig. 3.1 Replacing emitter module LED / lamp