Stainless Steel Conductivity Sensors for Boiler Blowdown

Product Instructions

**Mechanical Installation**

**In-Line Installation.** Suggested mounting is in 1" NPT forged steel cross. Install 1" x 3/4" reducing bushing first. Make sure to wrap threads with Pipe Thread Sealing Tape before installing. Next, install electrode into 3/4" female receptacle of reducing bushing. Make sure to wrap threads with Pipe Thread Sealing Tape before installing. Last, install conduit box on top of electrode at 3/4" NPT top thread. Since this threaded connection does not see liquid, no Pipe Thread Sealing Tape is required. Orient sensor in cross as shown in FIG 2.

**Electrode Removal.** Simply reverse installation procedures above.

**Electrical Installation**

Attach sensor wires to terminal strip in conduit box. Next attach extension wires from terminal strip in conduit box to conductivity controller or transmitter. Wiring is as follows:

- **Red:** Sensor
- **Black:** Sensor
- **Green:** TC
- **White:** TC

**Note:** Model CS676HT has red and black wires only

Follow wiring instructions supplied with your controller.

**Calibration**

Calibrate sensor according to meter/controller manufacturer’s instructions using known certified conductivity standards. Contact Sensorex or go to www.sensorex.com for a complete selection of calibration standards. Be sure and calibrate in large beaker or bucket stirring sample with electrode. Avoid bubbles as much as possible as bubbles cause erroneous readings.

**SPECIFICATIONS**

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<tbody>
<tr>
<td><strong>Cell Constant</strong></td>
<td>1.0</td>
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<tr>
<td><strong>Maximum Temp/Pressure</strong></td>
<td>200 deg C/250psig</td>
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<tr>
<td><strong>Wetted Materials</strong></td>
<td>SS316, PEEK, EPDM</td>
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<tr>
<td><strong>Electrode Connections</strong></td>
<td>3/4&quot; NPT</td>
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| **Wiring**               | Red - Body  
                          | Black - Center Pin  
                          | Green, White - TC |

Parts covered by this product data sheet include:

CS676HT, CS676HTTC