

# 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](http://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

Cell Constant	1.0
Maximum Temp/Pressure	200 deg C/250psig
Wetted Materials	SS316, PEEK, EPDM
Electrode Connections	3/4" NPT
Wiring	Red - Body Black - Center Pin Green, White - TC

