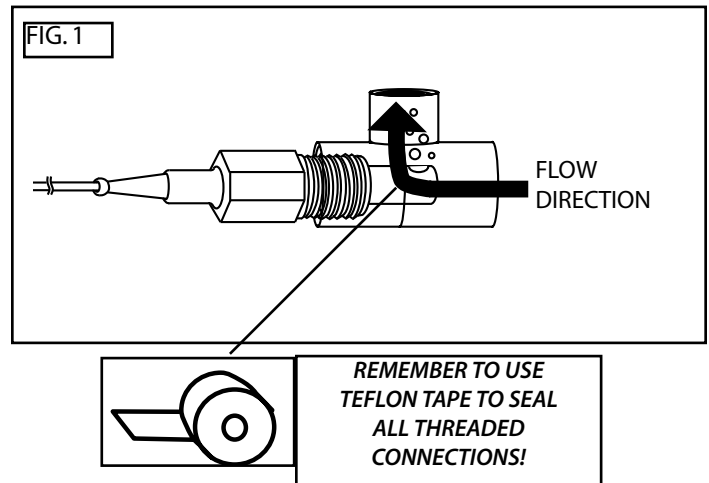


Stainless Steel Body Conductivity Sensor with 1/2" NPT Connection

MECHANICAL INSTALLATION

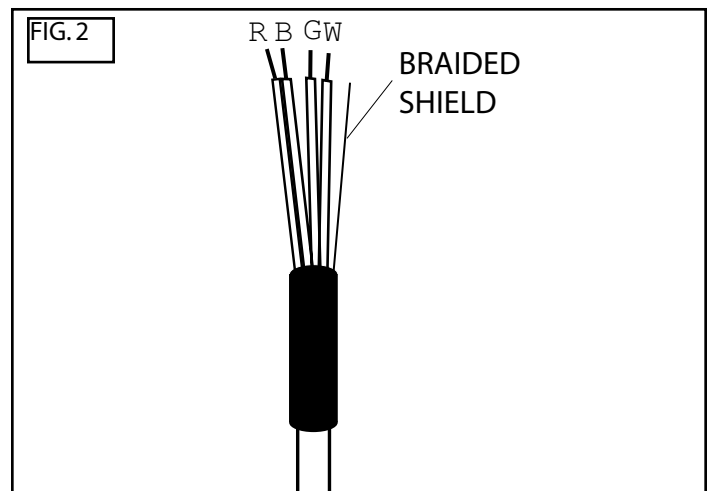
IN-LINE INSTALLATION. Mounting in-line is achieved by threading the 1/2" NPT thread into a tee. **ALWAYS USE TEFLON TAPE TO SEAL THREADS.** For in-line mounting it is suggested that the sensor be mounted through the side of the tee as shown in FIG. 1. Mounting through the side of the tee ensures bubbles rise to top of line and are not trapped in the sensor. Trapped bubbles cause inaccurate readings.



ELECTRICAL INSTALLATION

INSTALLATION FOR ELECTRODES WITHOUT TEMPERATURE SENSOR INCLUDED. The CS650 does not include a temperature sensor. Each is supplied with 2 connections (RED AND BLACK) and optional ground. Please follow instructions from supplier of controller or transmitter for proper wiring.

INSTALLATION FOR ELECTRODES WITH TEMPERATURE SENSOR INCLUDED. Electrodes with part number CS650TC-___ or CS650HTTC-___ include a temperature sensor to provide a temperature signal so that your conductivity instrument can perform temperature compensation (correct conductivity value to 25C or 20C depending on instrument manufacturer.) The temperature wires are GREEN and WHITE (see FIG 2.) These temperature wires can be connected to the instrument's temperature input in any order since the output is a resistant signal (Ohms). Please note that some meters require a 3 or 4 wire temperature signal input. In these cases, place a jumper wire (for 3-wire type) or 2 jumper wires (4-wire type) from the original lead to open temperature inputs. Please refer to manufacturer's manual for details.



CALIBRATION

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.

CARE AND CLEANING

CLEANING. CS650 series electrodes have a stain;less steel 316 measuring surface and PEEK plastic insulator. Clean surfaces with gentle detergent or 5% HCl in cup or beaker. Do not sand or abrade the steele surface as abrasion changes the surface area and will cause erroneous readings.