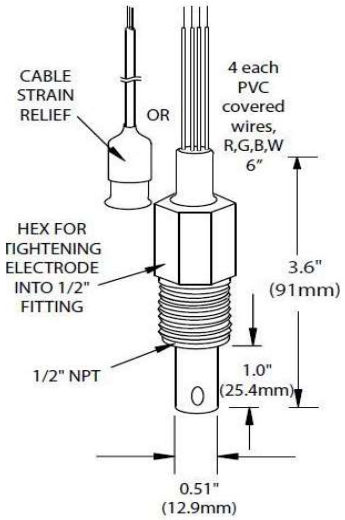
Our Neomeris Select high temperature conductivity cells are suitable in a wide range of high-performance applications with high temperatures and pressures. To meet these demanding technical requirements, our sensors are manufactured from 316 stainless steel with PEEK elements and feature a one-piece cell design suitable for high pressure conditions.

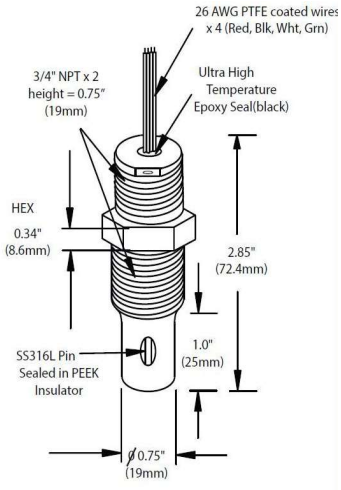
The conductivity cells are available with different cell constants (0.1/cm and 1.0/cm) and temperature sensors (PT100 and PT1000) and are designed for a specific pressure-temperature range. For certain model types, you can also choose between short and extended versions, depending on the installation situation. Our 1/2" inch Select LF stainless steel conductivity cell is a general-purpose sensor that can be used in a variety of standard applications such as in cooling towers or water treatment plants etc. and is easy to install.

This is contrasted by our Select HTLF Ultra high-performance measuring cell, which is the top model in the product range. This conductivity sensor is specially designed for boiler applications where it is permanently integrated in the boiler. You can easily select the right conductivity sensor for you via our selection menu and feel free to contact us if you have any questions.

Version:	**LF**	**HTLF**	**HTLF ULTRA**
Maximum Temperature:	100 °C	200 °C	250 °C
Maximum Pressure:	13 bar (200 PSIG)	17 bar (250 PSIG)	41 bar (600 PSI)
Process connection:	½ Zoll NPT	¾ Zoll NPT *(extended version available)	¾ Zoll NPT
Measuring resistor:	PT100 or PT1000 RTD	PT100 or PT1000 RTD	PT100 or PT1000 RTD
Cell constant:	0.1 or 1.0	0.1 or 1.0	1.0
Wetted materials:	stainless steel 316 body and pins PEEK-insulator, aflas o-rings	stainless steel 316 body and pins PEEK-insulator, Ethylene-Propylene o-rings	stainless steel 316 body and pins PEEK-insulator, perfluoro elastomer o-rings
Cable length:	3 meters	15cm long (6“) PTFE-coated high temperature cable	
Part numbers:	0,1 Cell constant: PT 100: 891218 0,1 Cell constant: PT 1000: 891219 1,0 Cell constant: PT 100: 891220 1,0 Cell constant: PT 1000: 891221	0,1 Cell constant: PT 100: 890790 (* extended version: 890794) 0,1 Cell constant: PT 1000: 890791 (* extended version: 890795) 1,0 Cell constant: PT 100: 890792 (* extended version: 890796) 1,0 Cell constant: PT 1000: 890793 (* extended version: 890797)	1,0 Cell constant: PT 100: 891222 1,0 Cell constant: PT 1000: 891223



LF



HTLF

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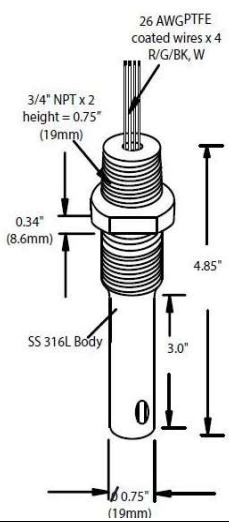
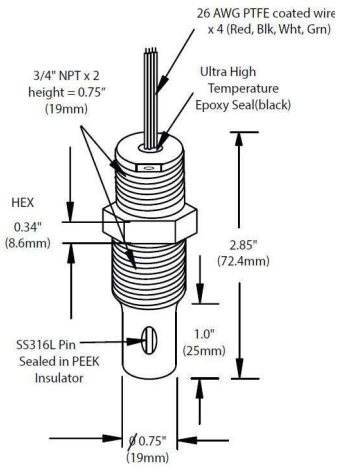


HTLF Extended Version



HTLF ULTRA

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Calibration

Calibrate sensor according to meter/controller manufacturer's instructions using known certified conductivity 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. Always calibrate at zero and another solution above the maximum value of your solution.

Sensor Installation

Mechanical

1. To install the sensor in-line, the suggested mounting is in 3/4" NPT forged steel tee. For the extended versions, install 1"x ¾" reducing bushing first. See FIG 1.

2. Otherwise, install electrode first. Make sure to wrap electrode threads with Pipe Thread Sealing Tape before installing. Align electrode hole in body with tee flow path. See FIG 2.

3. Next, install for example and conduit box on top of electrode at 3/4" NPT top thread. See FIG 3. Outdoor applications or other areas of hosedown should use pipe joint sealant.
4. Ensure that the hole of the sensor end is aligned to flow direction!

FIG. 1

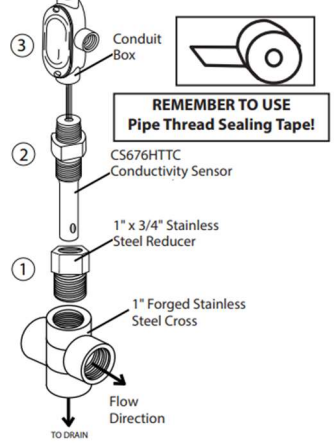
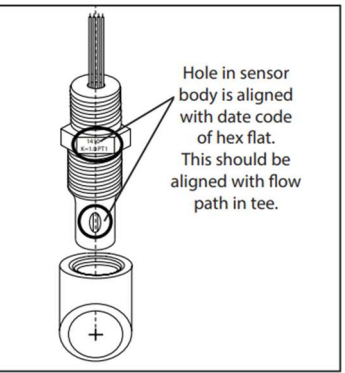


FIG. 2



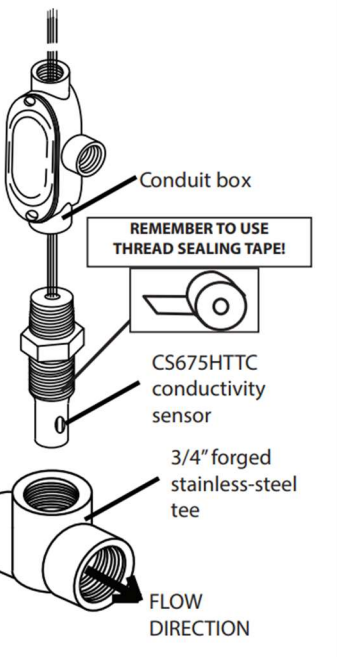
Electrical

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

    - Red: Sensor
    - Black: Sensor
    - Green: Temperature
    - White: Temperature

3. Follow wiring instructions supplied with your controller.

FIG. 3



Sensor Cleaning

Do NOT clean sensors with an abrasive brush, as it could scratch the surface of the stainless steel. This will adversely affect the measurement.

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