

Industrial Contacting Conductivity Sensors



Heavy duty electrodes for boiler applications

Available with ATC for most makes and models of conductivity transmitters or controllers

0.1, 1.0 and 10.0 cell constants available (see details below)

Extended length version for mounting in cross

Sensorex manufactures a quality line of industrial grade conductivity electrodes for submersion or in-line mounting. All electrodes are constructed with stainless steel bodies and pins (316SS) and PEEK insulators. As an added option, automatic temperature compensation is available. Model CS650TC is well suited for ultra-pure water applications while CS675HTTC and CS676HTTC are well suited for boiler applications. All "HTTC" models are supplied with 6" PTFE coated wires for customer convenience.

Specifications

Wetted Materials

CS650 Series: 1/2" NPT stainless steel 316 body and pins, PEEK insulator, aflas O-rings

CS675, CS676 3/4" NPT stainless steel 316 body and pins, Series: PEEK insulator, Ethylene Propylene O-rings

Cell Constants

CS650 models: 0.1 and 1.0 only

CS675, CS676 models: 0.1, 1.0 and 10.0

Wire Leads

CS650, CS675, CS76 "TC" or "HP" or "HPTC" models: PVC jacketed 4-conductor cable

CS650, CS675, CS76 "HTTC" models: 6" PTFE coated wire (or ETFE jacketed cable - contact factory)

Wire Designations (PVS Jacketed of PTFE Coated)

Red = Body

Black = Center pin

Grn/wht = Temperature

Wire Designations (ETFE Jacketed)

White = Body

Blue stripe = Center pin

Grn stripe/orange stripe = Temperature

Temperature/Pressure Ratings

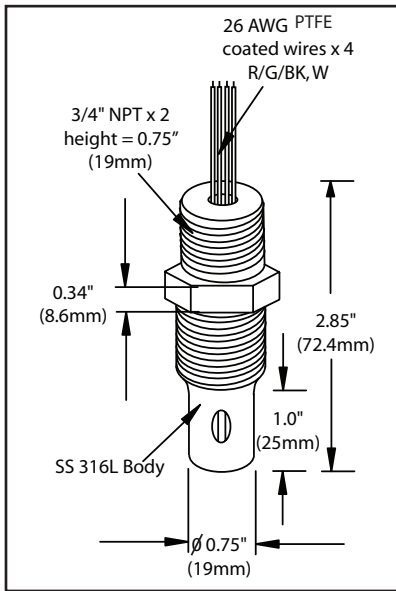
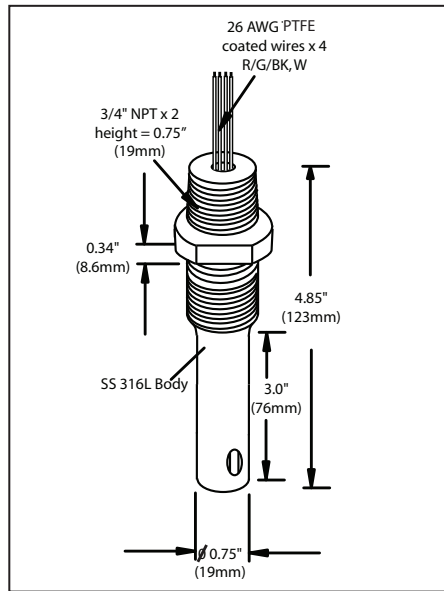
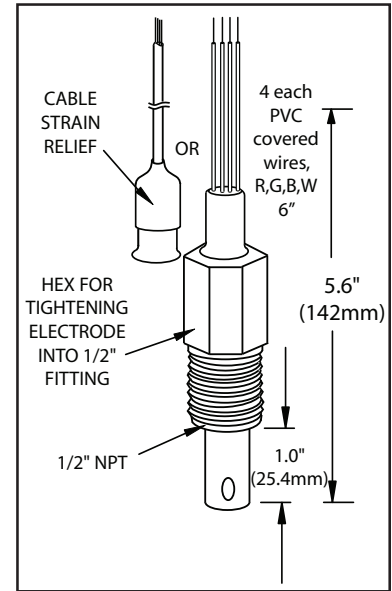
| Model# | Temp. Max. | Pressure Max. |
|--------------|------------|---------------|
| CS650TC | 100C** | 200 psig |
| CS675/TC | 100C** | 250 psig |
| CS675HT/HTTC | 200C | 250 psig |
| CS676/TC | 100C** | 250 psig |
| CS676HT/HTTC | 200C | 250 psig |
| CS675HP/HPTC | 100C** | 300 psig |
| CS676HP/HPTC | 100 C** | 300 psig |

Note: ** 70C for NTC (thermistor temperature sensors)

Parts covered by this product data sheet include:

CS650, CS650TC, CS675, CS675HP, CS675HPTC, CS675HT, CS675TC, CS675HTTC, CS676, CS676HP, CS676HPTC, CS676TC, CS676HT CS676HTTC

Industrial Contacting Conductivity Sensors

CS675TC, CS675HTTC

**CS676TC, CS676HTTC,
CS676HPTC**

CS650TC


Ordering Information

| Model Number | Description | Specify |
|--------------|--|------------------------|
| CS650TC | 316SS conductivity sensor with 1/2" NPT | cell constant (k), TC |
| CS675TC | 316SS conductivity sensor with 3/4" NPT | cell constant (k), TC |
| CS675HTTC | High Temp 316SS conductivity sensor with 3/4" NPT | cell constant (k), TC |
| CS675HT | High Temp 316SS conductivity sensor with 3/4" NPT | cell constant (k) only |
| CS676TC | Extended Length 316SS conductivity sensor, 3/4" NPT | cell constant (k), TC |
| CS676HTTC | High temp, ext length 316SS conductivity sensor 3/4" NPT | cell constant (k), TC |
| CS676HP | High temp, ext length 316SS conductivity sensor 3/4" NPT | cell constant (k) only |
| CS675HPTC | High pressure 316SS conductivity sensor 3/4" NPT | cell constant (k), TC |
| CS676HP | Extended Length 316SS conductivity sensor, 3/4" NPT | cell constant (k) only |
| CS676HPTC | Extended Length 316SS conductivity sensor, 3/4" NPT | cell constant (k), TC |