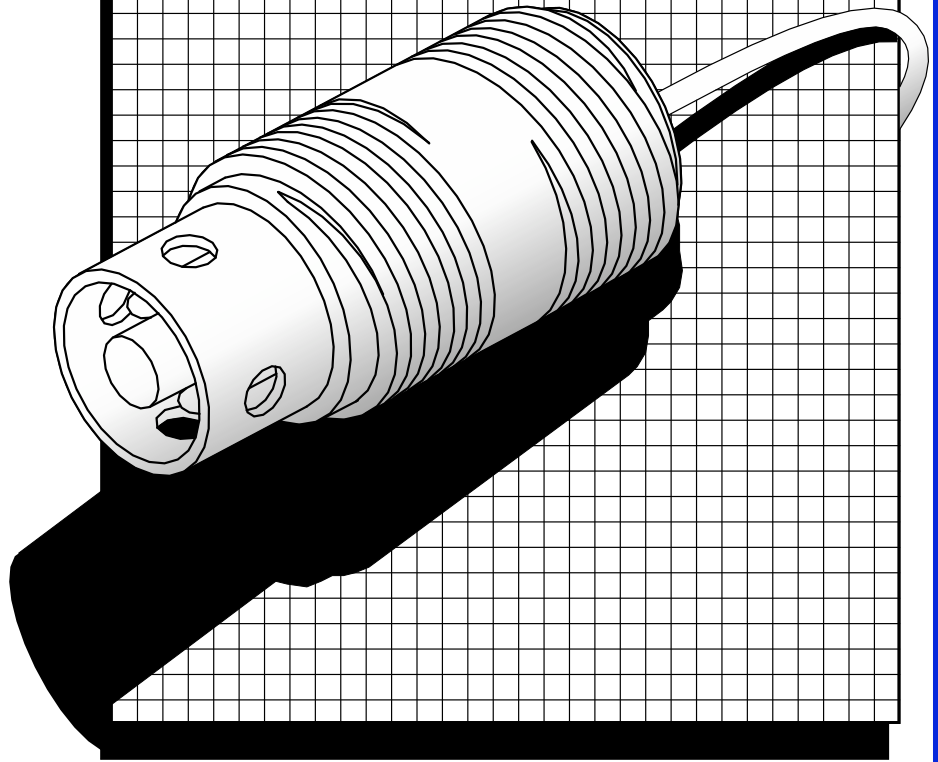




SENSOR DEVELOPMENT, INC.  
SANTA ANA, CALIF (714) 836-7090

## Model CS50 & 60 CONDUCTIVITY SENSOR

- **Double threaded body can be used for either submersion or insertion**
- **O-ring seals used on all versions for high on-stream reliability**
- **Can be used with many instrument brands by specifying proper TC**



These sensors are designed for use in general purpose applications up to about 50,000 microsiemens, and provide outstanding chemical resistance. Open front end geometry resists clogging and reduces maintenance requirements to a minimum.

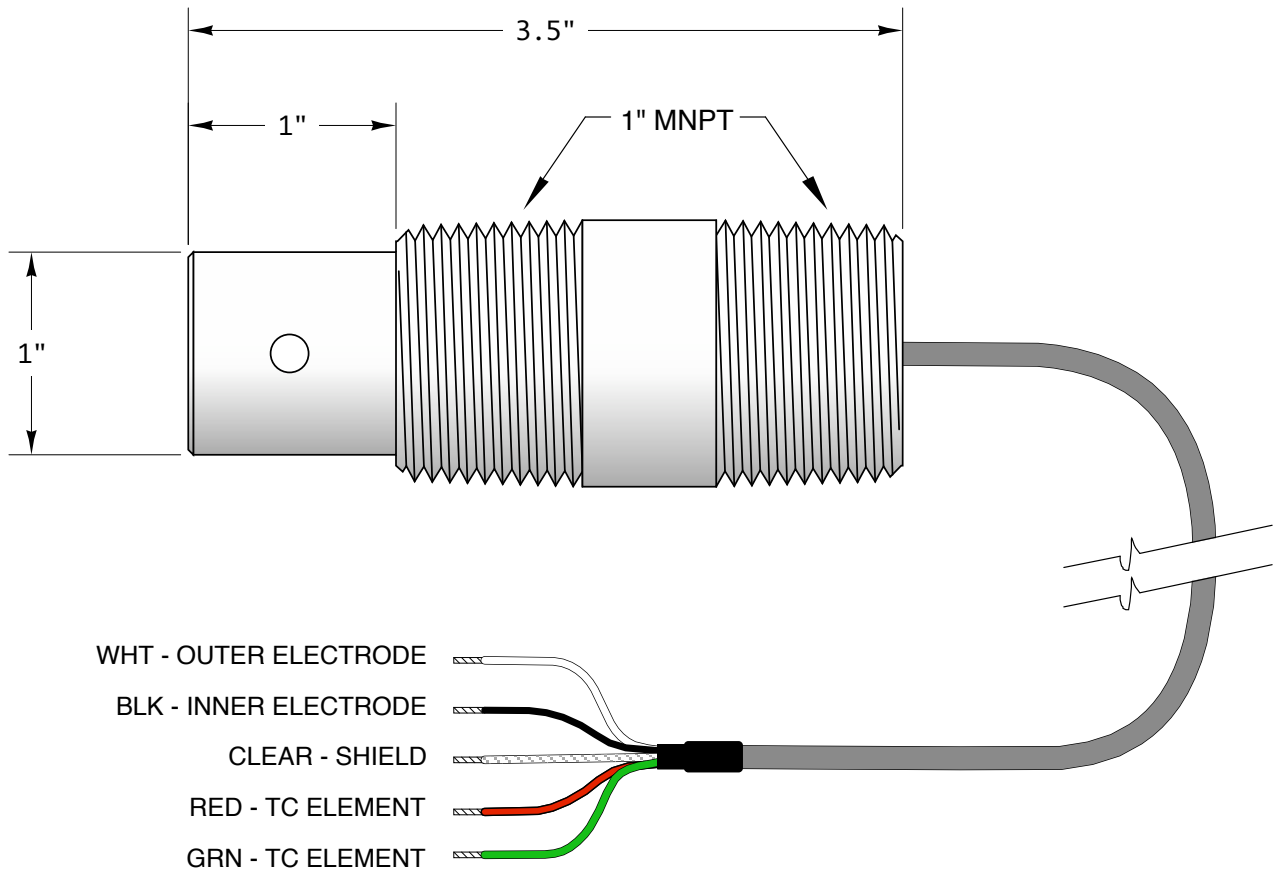
### Application Notes

Wetted materials of construction are CPVC or Teflon/Kynar, with 316SS electrodes as standard. The option to select other metals as electrode materials provides an unequalled chemical resistance capability.

Dual O-ring seals of EPDM increase sensor reliability and service life. The front seal absorbs the brunt of chemical attack, allowing the rear o-ring to

operate in a protected environment, and ensure continued sealing.

Cell constants from 0.1 to 2.0 are available. The ranges that can be achieved with these constants is dependent on the analyzer they are used with, but 10 to 50,000  $\mu\text{S}$  is the approximate area of use. TC selection is the key to using these sensors effectively with a variety of instruments.



## SPECIFICATIONS

### MAX. PRESSURE/TEMP. RATINGS:

CS50 - 100 PSIG at 95°C  
 CS60 - 100 PSIG at 120°C

### WETTED MATERIALS:

**Insulator:** CS50 - CPVC; CS60 - Teflon/Kynar  
**O-rings** - EPDM FDA APPROVED  
**Electrodes** - 316LSS standard; Titanium, Monel, HastC, Nickel, Zirconium & more on request.

### CELL CONSTANT:

2.0/1.0/0.2/0.1

### CONNECTIONS:

**Process** - 1" NPT

**Electrical** - Stripped and tinned 24 gauge

### TEMPERATURE COMPENSATION:

10KΩ@25°C/32.66KΩ@0°C NTC is standard. Available options include Pt1000, Pt100, 3K BALCO, 8.55K NTC, Ni100 and many others. Reference the make and model of instrument for assistance in selecting the right element.



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