

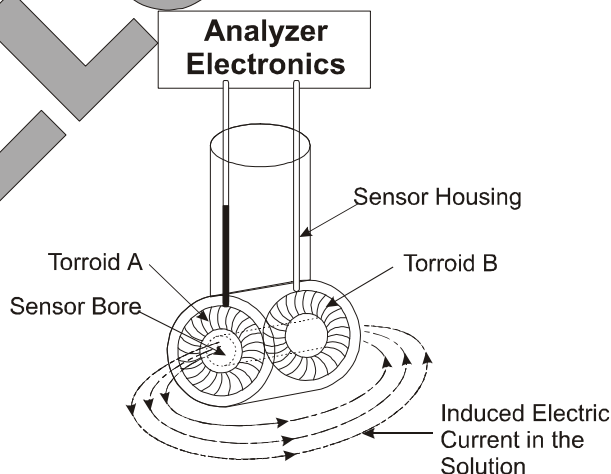
## Model 4700E Series Electrodless Conductivity Sensors



- **Wide Measuring Range:**  
0-200 upto 0-2,000,000 microSiemens/cm
- **Polypropylene, PVDF, Teflon & Hastelloy C** body material.
- **Low Maintenance Design.**
- **Resists Coating, Corrosion & Fouling.**
- **Auto Temp Compensation (PT 1000)**

### Electrodless Technology

Electrodless sensors induce a low current in a closed loop of solution, then measure the magnitude of this current to determine the solution's conductivity. The conductivity analyzer drives Torroid A, inducing an alternating current in the solution. This current signal flows in a closed loop through the sensor bore and surrounding solution. Torroid B senses the magnitude of the induced current which is proportional to the conductance of the solution. The analyzer processes this signal and displays the corresponding reading. Since this style sensor has no electrodes, problems with contacting type electrodes- such as polarization, oily fouling, process coating, is avoided and will not affect the performance of the electrodless sensor.



### Specifications :

Wetted Material:.....Polypropylene, PVDF, TEFLON, or Hastelloy 'C'  
 Maximum flow:.....10ft. (3 m) per second  
 Measuring Range.....0-200 upto 0-2,000,000 microSiemens/cm.  
 Temperature Compensation:.....PT 1000 RTD  
 Sensor Cable.....5 Conductor + SHILD., 20 ft (6m) LONG  
 Process Connection:.....3/4" NPT (M) Convertible (Flow Thru/Submersed)

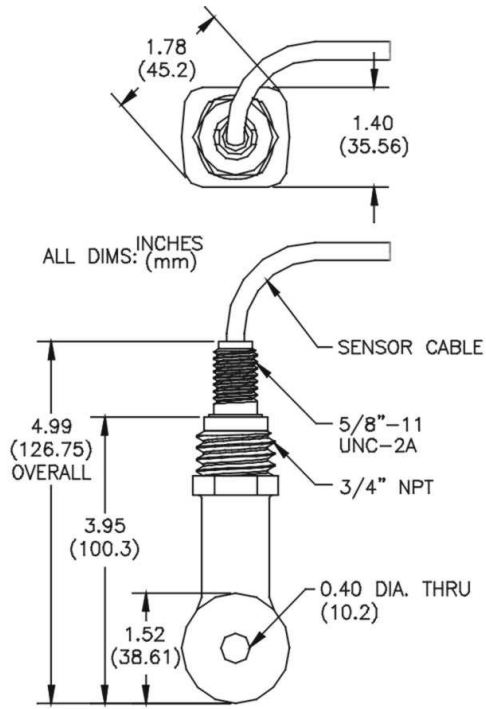
### Electrodless sensor operation

### Operating Pressure/Temperature Limits:

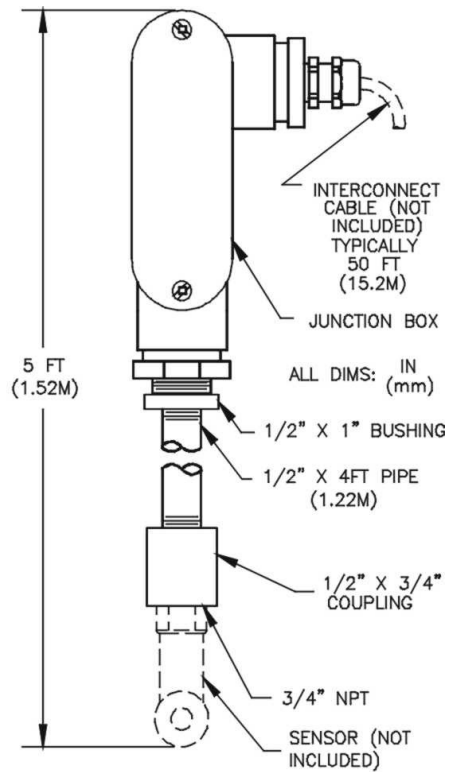
Sensor Model No.	Wetted Part.	Press/Temp Rating
4725E2T	Polypropylene	100 psig at 80°C
4726E2T	PVDF	100 psig at 100°C
4727E2T	Glass-filled Teflon	150 psig at 150°C
4728E2T	Carbon-filled Teflon	100 psig at 120°C
4729E2T	Hastelloy 'C'	100 psig at 120°C

# Dimensions

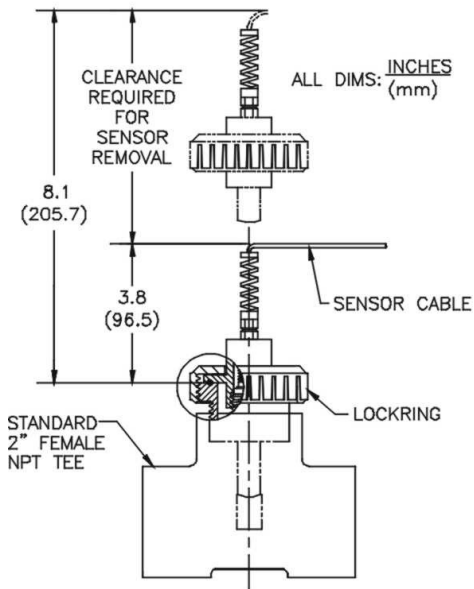
Inches (mm)



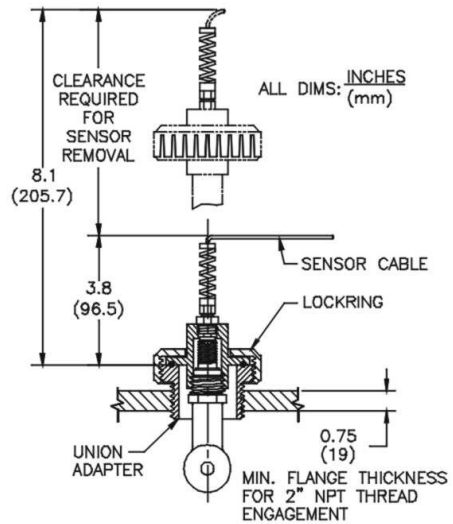
**Convertible Style Sensor**



**Immersion Mounting**



**2-inch NPT Tee Mounting**



**2-inch NPT Flange Mounting**