

# Resistivity Sensor



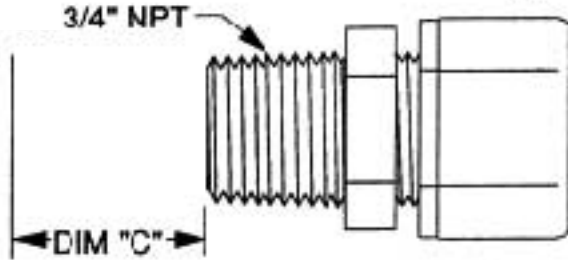
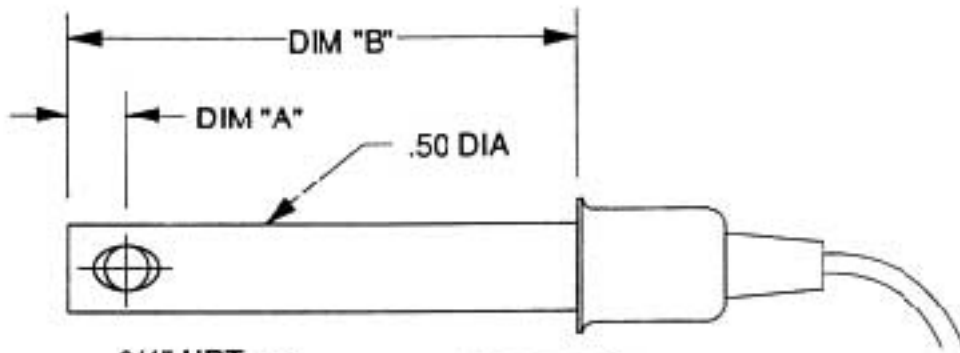
- Small size enables convenient installation and service.
- O-ring seals used on all versions for high on-stream reliability .
- Plastic gland fitting allows removal and replacement without tools.

## Application Notes

Wetted materials of construction are 316 stainless steel and Teflon\*, with double o-ring seals at all points. The outer EPR O-ring bears the brunt of process interface, allowing the back O-ring to maintain reliable sealing free from chemical attack. An integral temperature element allows automatic compensation for maximum accuracy. Leads are 10 feet (3 meters) standard.

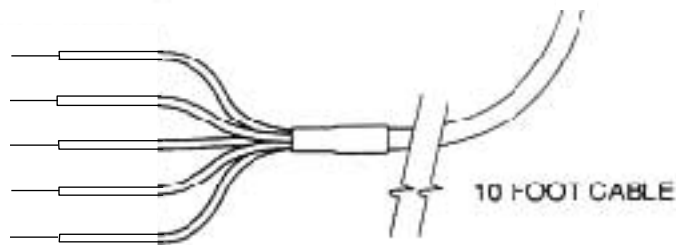
Process connections are made via a bored through swage 3/4" NPT fitting as standard. This fitting can be screwed into a line, or tank, and it can also be turned around and connected to a standpipe for use in a submersion configuration. The CS10 was designed primarily for use in pure water streams at low conductivities.

\* <sup>TM</sup>DuPont Company



DIMENSIONAL DATA TABLE			
MODEL NO	"A"	"B"	"C"
CS10	.80	2.75	1.00
CS10LS	.80	6.00	4.25

- CLR - SHIELD
- BLK - INNER ELECTRODE
- WHT - OUTER ELECTRODE
- RED - TC ELEMENT
- GRN - TC ELEMENT



### SPECIFICATIONS

#### MAX. PRESSURE/TEMP. RATINGS:

100 PSIG at 100 °C  
 200 PSIG at 120 °C w/316SS FITTING

#### WETTED MATERIALS:

**Insulator** - Teflon  
**O-rings** - EPR  
**Electrodes** - 316 Stainless Steel standard,  
 optional materials available on request.

**Fitting** - Polypropylene, 316SS Optional.

#### SENSOR CONSTANT:

**Resistivity**  
 CS10/CS10LS - 0- 200K to 0-20M ohms 0.05

#### CONNECTIONS:

**Polypropylene Process Fitting** -  
 3/4" NPT Standard (1/2" NPT Optional)  
**Stainless Steel Process Fitting** -  
 1/2" NPT

**Electrical** -  
 Plain stripped wire ends, 22-24 ga.

#### TEMPERATURE COMPENSATION:

Resistivity 5.49K ohms & 100K ohms @ 25°C.

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