

CS40 Conductivity Sensor

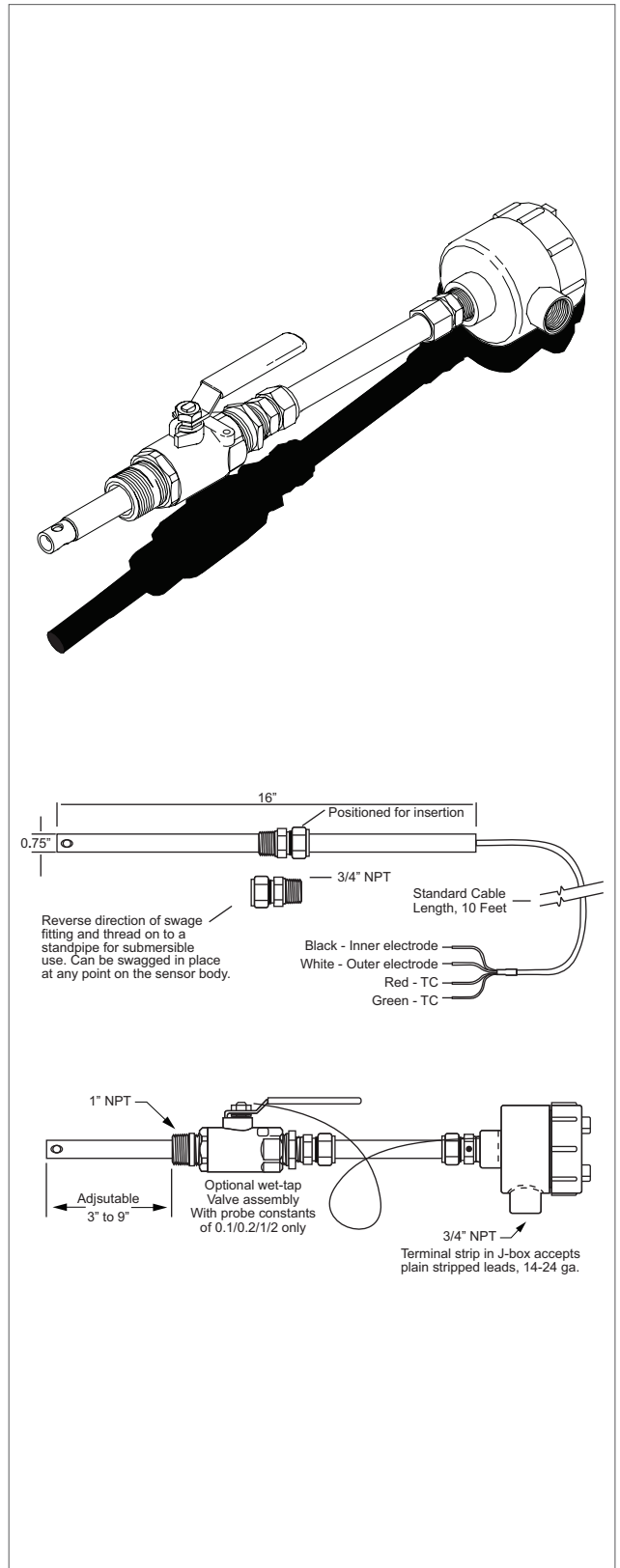
Model CS40 sensor has been designed specifically for high pressure, high temperature conductivity measurements, and is available in a broad range of probe constants. It can be installed in submersion, insertion, or wet-tap configurations, and is good for most applications from high purity to high chemical concentrations.

Salient Features

- Measures conductivity directly in process with high temperature option
- O-ring seals used on all versions for high on-stream reliability.
- Optional wet-tap valve allows insertion and removal while line is under pressure.

Wetted materials of construction are 316 stainless steel and teflon, depending on the range of temperature required. All possible leak paths through the sensor are double sealed with EPR O-rings for maximum on-stream reliability. The front O-rings protect the back ones from chemical attack, giving more than double the service life that can be expected from single sealed units.

Process connections are made via a bored through swage fitting with 3/4" NPT threads. This fitting can be screwed into a line, a tank, or the optional wet-tap valve assembly. It can be turned around and connected to a standpipe for use in a submersion configuration. Available probe constants range from 0.01 to 20.0 giving it the broadest range of application of any of our sensor models.



Specifications

Maximum Pressure/ Temperature Ratings	
Standard sensor	100 PSIG at 150°C
High temperature sensor	250 PSIG at 205°C
Valve assembly	50 PSIG at all temperatures
Wetted Materials	
Electrodes	316 Stainless Steel
Insulator	PEEK
O-Rings	EPR
Optional Junction Box	Class 1, Group D, Div. 2, Weatherproof, Aluminum
Connections	
Process	3/4" MNPT /1" MNPT for valve
Electrical	33' cable w/spade lugs optional j-box has 3/4" NPT hub and terminal strip

Ordering Information

Model CS40 with retractable SS ball valve assembly

Part No.	Cell constant	Connection
CS40-001-HT-SSV-33'	0.01	1"NPT (M)
CS40-010-HT-SSV-33'	0.1	1"NPT (M)
CS40-100-HT-SSV-33'	1	1"NPT (M)
CS40-10-HT-SSV-33'	10	1"NPT (M)

Model CS40 with 3/4" NPT Connector

Part No.	Cell constant	Connection
CS40-001-HT-PT100-33'-3/4	0.01	3/4"NPT (M)
CS40-010-HT-PT100-33'-3/4	0.1	3/4"NPT (M)
CS40-100-HT-PT100-33'-3/4	1	3/4"NPT (M)
CS40-10-HT-PT100-33'-3/4	10	3/4"NPT (M)

Housing

Type	MOC	Part No.
Flow through chamber	SS316	FGC2013449
Flow through chamber	PP	FGC2011705

*Above models comes with inbuilt 10 M Cable.
Different cable lengths are also available



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