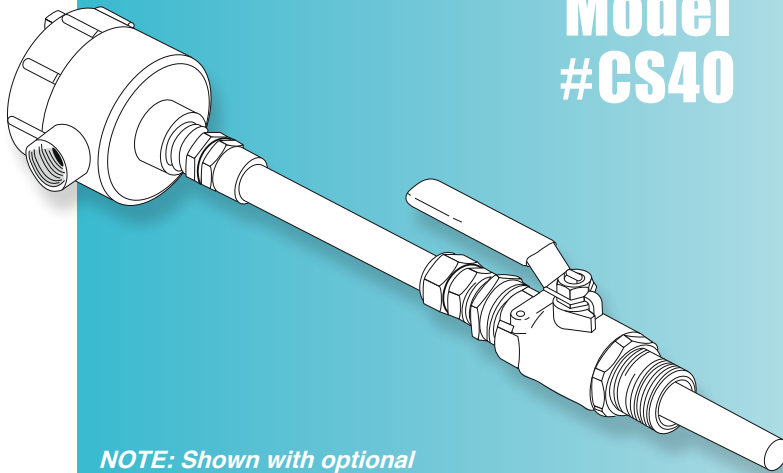


# CONDUCTIVITY/RESISTIVITY SENSOR #CS40

For 750II Conductivity/Resistivity Monitor/controllers



Model  
#CS40

NOTE: Shown with optional wet-tap valve and junction box

- Measures conductivity or resistivity directly in process temperatures up to 120°C.
- Dual 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.

**MODELS:** CS40

CS40HT (Temporarily unavailable; contact manufacturer)

## BENEFITS

- **Economic Value**
- **Standard 100 psi at 150°C/Hi-Temp 250 psi at 205°C**
- **Broad Measurement Range**
- **Many Applications**

The Myron L Model CS40 sensor has been designed for a broad measurement range in difficult process conditions. It can be installed in submersion, insertion, or wet-tap configurations, and is good for most applications from high purity water to high chemical concentrations.

## DESCRIPTION

Wetted materials of construction are 316

stainless steel and Kel-F or 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 first O-ring protects the second O-ring 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 (WTV) assembly. It can also be turned around and connected to a standpipe

for use in a submersion configuration. Available sensor constants of 0.05, 0.1, 1.0 & 10.0 provide the broadest range of applications of any of our sensor models.



CS40 Sensor w/optional WTV

For more information, please visit our website at [www.myronl.com](http://www.myronl.com)

\* Teflon® is a registered trademark of DuPont.

**MYRON L<sup>®</sup>**  
**COMPANY**  
Water Quality Instrumentation  
Accuracy • Reliability • Simplicity

## SPECIFICATIONS

### Maximum Pressure/Temperature Ratings:

<b>Standard Sensor</b>	100 psi/6,9 bar at 120°C/248°F
<b>Hi Temp Sensor</b>	Temporarily unavailable; contact manufacturer.
<b>Valve Assembly</b>	50 psi/3,4 bar at all temps

### Wetted Materials:

<b>Insulator</b>	Teflon®
<b>O-rings</b>	EPR
<b>Electrodes</b>	316 Stainless Steel standard; optional materials available upon request.
<b>Fitting</b>	316 Stainless Steel

### Temperature Compensation

Resistivity: 5.49 KΩ & 100 KΩ @ 25°C/77°F  
 Conductivity: 10 KΩ @ 25°C/77°F  
 Conductivity HT: 100 KΩ @ 25°C/77°F  
 RT100 & RT1000 available upon request.

### Connections:

3/4" NPT compatible with BSP

### Process

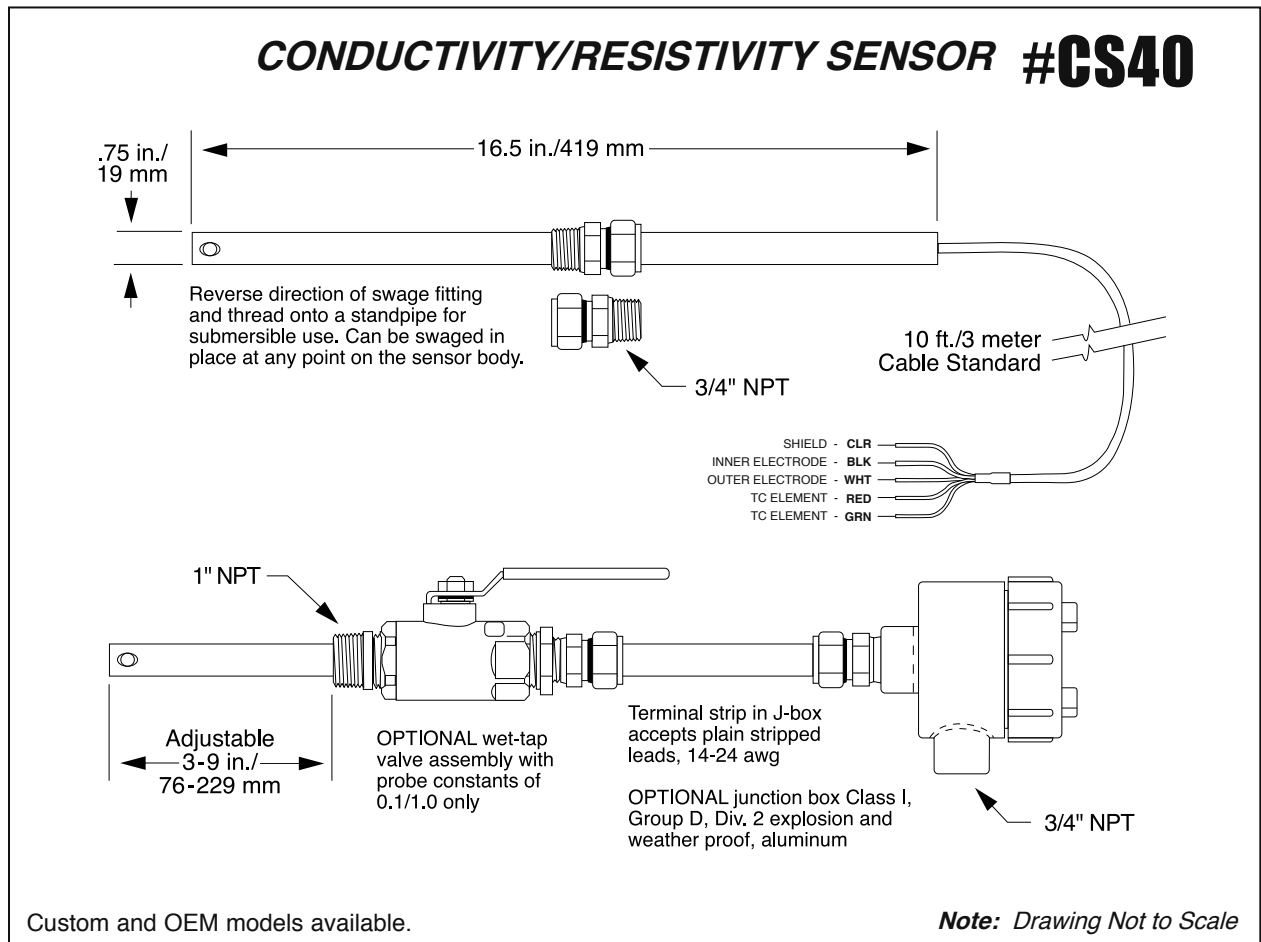
Sensor: 3/4" NPT  
 Valve: 1" NPT

### Electrical

Plain tinned wire ends, 22-24 gauge.

### Sensor Constant:

Measurement	Range	Constant
Resistivity	0-200 KΩ to 0-20 MΩ	0.05
Conductivity	0-1 to 0-5 μS/ppm	0.1
	0-10 to 0-20,000 μS/ppm	1.0
	0-50,000 to 0-200,000 μS/ppm	10.0



## LIMITED WARRANTY

All Myron L® conductivity and resistivity sensors have a Two (2) Year Limited Warranty. If sensor fails to function normally, return the unit to the factory prepaid. If, in the opinion of the factory, failure was due to materials or workmanship, repair or replacement will be made without charge. A reasonable service charge will be made for diagnosis or repairs due to normal wear, abuse or tampering. Warranty is limited to the repair or replacement of the sensor only. The Myron L® Company assumes no other responsibility or liability.

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**Built On Trust.** Founded in 1957, the Myron L® Company is one of the world's leading manufacturers of water quality instruments. Because of our commitment to product improvement, changes in design and specifications are possible. You have our assurance any changes will be guided by our product philosophy: accuracy, reliability, and simplicity.

