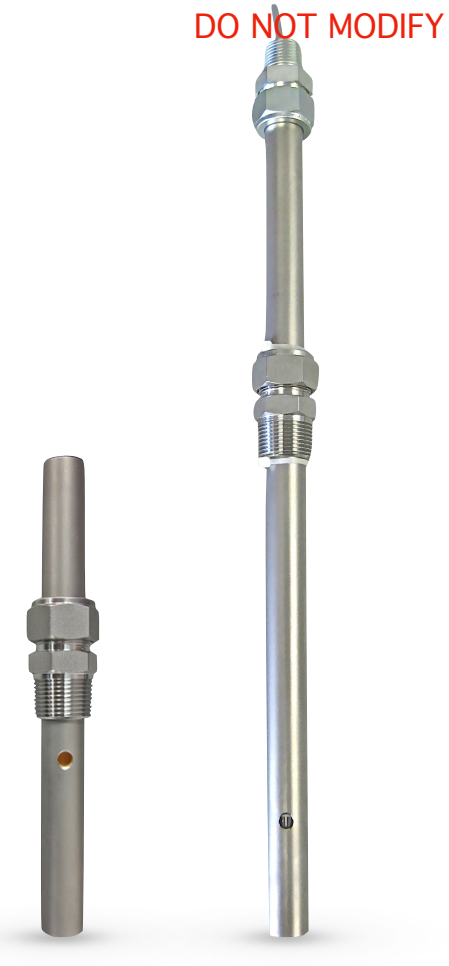
CONTROLLED DOCUMENT
DO NOT MODIFY



Measure conductivity directly in process temperatures up to 150°C @ 100 PSIG.

O-ring seals used on all versions for high on-stream reliability.

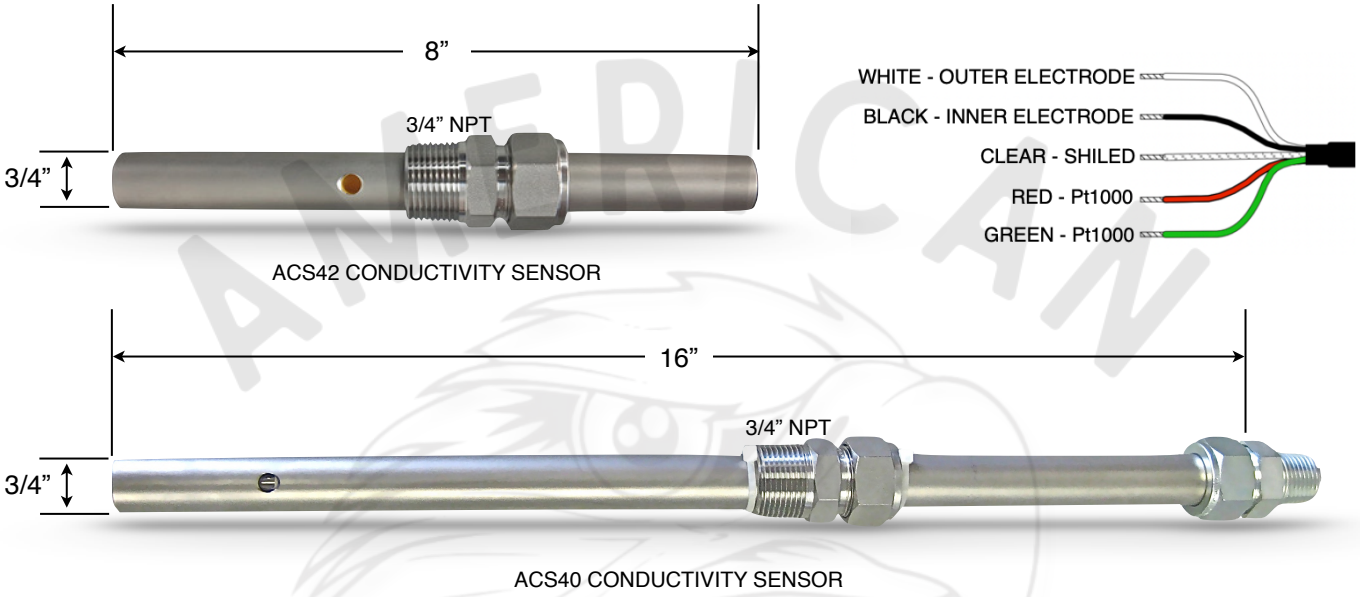
Optional wet-tap valve allows insertion and removal with line under pressure.

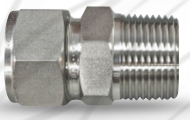
The ACS40 and ACS42 sensors have been designed for a wide measurement range in difficult process conditions. It can be installed in submersion, insertion, or wet-tap configurations, and is good for most applications from high purity water to high chemical concentrations.

Application Notes

Wetted materials of construction are 316 stainless steel and PEEK, with alternate materials available on request. All possible leak paths through the sensor are double sealed with EPDM O-rings for maximum on-stream reliability. The front O-rings isolate 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 also be turned around and connected to a standpipe for use in a submersion configuration. Available cell constants range from 0.01 to 20.0 giving it a very broad scope of application.

TITLE			
ACS40 & ACS42 CONDUCTIVITY SENSORS			
SIZE	PROJECT	DRAWING NO.	REV.
A	ACS	9005	A





REVERSE DIRECTION OF FITTING FOR A STANDPIPE, AND SUBMERSIBLE USE. CAN BE SECURED IN PLACE AT ANY POINT ON THE SENSOR BODY.

ACS40 & ACS42 CONDUCTIVITY SENSOR SPECIFICATIONS

MAX. PRESSURE/TEMP. RATINGS
Standard Sensor - 100 PSIG at 120°C
Hi Temp. Sensor - 125 PSIG at 150°C

WETTED MATERIALS
Electrodes - 316L Stainless Steel (standard)
Insulator - PEEK
O-rings - EPDM FDA Approved

CELL CONSTANTS
20.0/10.0/2.0/1.0//0.1/0.01

CONNECTIONS:
Process Fitting - 3/4” NPT for sensor, 1” NPT for valve

Electrical - Stripped and tinned ends on cable; optional j-box has 3/4” hub and terminal strip to accept plain stripped wires ends. 14-24 ga.

TEMPEARTURE ELEMENT:
Pt1000 and Pt100 are standard, other options available. Provide the make and model of instrument for assistance in selecting the correct temperature element.

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