Digital Contacting Conductivity Sensor, High Conductivity (k=5.0), with ¾" PVDF Compression Fitting

Product #: **D3422D3.99**

AED Price: Contact Hach
Ships within 1 week

Ultimate accuracy from ultra-pure to high conductivity applications.

Contacting conductivity sensor with a nominal cell constant k = 5.0 cm^{-1}, ¾-inch NPT PVDF compression fitting, 7 m digital cable, and titanium electrode.

Measuring range 0 -10000 µS/cm.

High Performance Design
These sensors are manufactured to exacting tolerances using high quality, rugged materials for demanding applications including ultra-pure water, clean-in-place (CIP), and boiler/condensate monitoring. Each sensor is tested to determine its unique, absolute four-digit cell constant. Also, each sensor has a PT1000 RTD temperature element built into its tip for exceptionally fast response to changes in temperature with ±0.1 ºC accuracy.

Resistivity and Conductivity Measurement Capability
These enhanced performance sensors measure from theoretically pure water (0.057 µS/cm or 18.2 MΩ) up to 200,000 µS/cm. Hach's sc Digital Controllers accept multiple digital sensor inputs, and can be user-set to measure conductivity, resistivity,TDS, salinity, or one of six calculated measurements.

Versatile Mounting Styles
Compression Fitting Sensors

Feature titanium electrodes and a compression fitting for universal installation with up to 102 mm insertion depth. The ½-inch or ¾-inch male NPT compression fitting are offered in PVDF or 316 stainless steel. A longer version of this sensor is available for use with a 316 stainless steel ball valve hardware assembly to insert/retract the sensor form the process without stopping the flow. The longer version can also be used for insertion through a compression fitting. Maximum insertion depth is 178 mm.

Non-Metallic General Purpose Sensors

Have graphite electrodes and ¾-inch male NPT threaded PPS bodies. Mount into a standard ¾-inch pipe tee, 1-½-inch Hach union hardware (for cell constant k=10 sensor only), or fasten onto the end of the pipe.

High Pressure and High Temperature Sensors

Are designed for monitoring boiler water and condensate in return lines. They have 316 stainless steel electrodes and threaded bodies (¾-inch male NPT). They can be fastened into a boiler wall using a ¾-inch weldolet or mounted into a process line using a standard ¾-inch stainless pipe tee.

Sanitary Clean-in-Place (CIP) Style Sensors

Have 316 stainless steel electrodes and an integral 1-½-inch or 2-inch flange. These sensors can be installed using standard sanitary mounting hardware.

Full-Featured "Plug and Play" Hach sc Digital Controllers
There are no complicated wiring or set up procedures with any Hach sc controller. Just plug in any combination of Hach digital sensors and it's ready to use—it's "plug and play."

Specifications

Accuracy:	±2 % of reading above 200 µS/cm
Cable length:	Standard Probe Cable Length (integral)Digital Probe: 7 m (23 ft.)
Cell constant:	5.0 cm-1
Digital Gateway:	Integral Digital Gateway
Flow:	0 - 3 m/s maximum, fully immersed
Installation Kit:	3/4" NPT
Installation requirement:	PVDF
Installation style:	Compression
Material (electrode):	Titanium
Measuring range:	0 - 10000 µS/cm
Operating temperature range:	-20 - 200 °C
Pressure range:	0 - 20.7 bar
Repeatability:	±0.5 % of reading
Response time:	90 % of reading within 30 seconds of step change
Sensitivity:	±0.5 % of reading
Sensor cable:	Digital: PUR (polyethylene) 5-conductor, shielded, rated to 150°C (302°F)
Sensor type :	Digital
Temperature compensation:	Temperature Compensator: PT1000 RTD
Temperature measurement range:	-20 - 200 °C
Transmission distance:	100 m maximum; 1000 m maximum, when used with a termination box
Warranty:	24 months
Wetted Materials:	Titanium electrodes (316 stainless steel outer electrode for extended sensor body style used with ball valve assembly), PTFE insulator, and treated FKM/FPM O-ring seals
What's included?:	Includes: sensor with 7 m cable and manual

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