



Contacting Conductivity Sensor, Low Conductivity (k=0.05), with 1/2" PVDF Compression Fitting

Product #: 3422A1A
ZAR Price: Contact Hach
Ships within 3 days

Ultimate accuracy from ultra-pure to high conductivity applications.

Contacting conductivity sensor with a nominal cell constant $k = 0.05 \text{ cm}^{-1}$, 1/2-inch NPT PVDF compression fitting, 6 m analogue cable, and titanium electrode.

Measuring range 0 - 100 $\mu\text{S/cm}$, 0.002 - 20 $\text{M}\Omega$.

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 $\pm 0.1^\circ\text{C}$ accuracy.

Resistivity and conductivity measurement capability

These enhanced performance sensors measure from 0.057 $\mu\text{S/cm}$ or 18.2 $\text{M}\Omega$ (theoretically pure water) up to 200,000 $\mu\text{S/cm}$.

Versatile mounting styles

Compression Fitting Sensors feature titanium electrodes and a compression fitting for universal installation with up to 102 mm insertion depth. The 1/2-inch or 3/4-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 from 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.

Full-Featured “Plug and Play” with Digital Hach SC 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:	$\pm 2\%$ of reading above 200 $\mu\text{S/cm}$
Cable Length:	6 m
Cell constant k:	0.05 cm^{-1}
Diameter:	12.7 mm
Digital Gateway:	None
Electrode Material:	Titanium
Flow:	0 - 3 m/s maximum, fully immersed
Installation style:	Compression
Junction box:	None
Length:	193.5 mm
Material:	Compression Fitting: 1/2" NPT PVDF
Measuring range:	0 - 100 $\mu\text{S/cm}$

Operating temperature range:	-20 - 200 °C
Pressure Range:	1.7 bar at 150 °C
Repeatability:	±0.5 % of reading
Response Time T90:	30 s
Sensitivity:	±0.5 % of reading
Sensor Immersion Depth:	155 mm
Sensor Thread:	½" NPT
Sensor Type :	Analog
Temperature Measurement:	-20 - 200 °C
Temperature Sensor :	PT1000 RTD
Transmission Distance:	100 m maximum;
	1000 m maximum, when used with a termination box
Warranty:	12 months
What's included?:	Includes: sensor with 6 m (20 ft) cable and manual

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Required Accessories

- SC4500 Controller, Prognosys, 5x mA Output, 2 digital Sensors, 100-240 VAC, US plug (Item LXV525.99E11551)
- SC4500 Controller, Prognosys, 5x mA Output, 2 digital Sensors, 100-240 VAC, without power cord (Item LXV525.99A11551)
- SC4500 Controller, Prognosys, 5x mA Output, 1 digital Sensor, 100-240 VAC, without power cord (Item LXV525.99A11501)
- SC4500 Controller, Prognosys, 5x mA Output, 2 digital Sensors, 24 VDC, without plug (Item LXV525.99Z11551)