



1.0 Cell Constant, Compression fitting style, Contacting Conductivity Digital Sensor

Product #: D3422A2
ZAR Price: Contact Hach
Available

Ultimate accuracy from ultra-pure to high conductivity applications.

Nominal Cell Constant (K) = 0.05, 1/2 inch NPT 316 Stainless Steel Compression Fitting, 7m (23ft) Digital Cable, Titanium Electrode

High Performance Design

These enhanced performance 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 Pt 1000 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 theoretically pure water ($0.057\ \mu\text{S}/\text{cm}$ or $18.2\ \text{M}\Omega$) up to $200,000\ \mu\text{S}/\text{cm}$. 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 4 inches (102 mm) insertion depth. The 1/2-inch or 3/4-inch male NPT compression fittings 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 7 inches (178 mm).

Full Featured “Plug and Play” with Digital SC Controller

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 $200\ \mu\text{S}/\text{cm}$
Cable Length:	7 m (23 ft.)
Cell constant k:	0.05 cm-1
Digital Gateway:	Integral Digital Gateway
Electrode Material:	Titanium
Flow:	0 - 3 m/s (0–10 ft./s), maximum, fully immersed
Installation Kit:	1/2" NPT
Installation Requirement:	316 Stainless Steel
Installation style:	Compression
Measuring range:	0 - $100\ \mu\text{S}/\text{cm}$
Operating temperature range:	-20 - 200°C
Pressure Range:	0 - 300 psi (20.7 BAR)
Repeatability:	± 0.5 of reading

Response time:	90 % of reading within 30 seconds of step change
Sensitivity:	± .05 % of reading
Sensor Cable:	Digital: PUR (polyethylene) 5-conductor, shielded, rated to 150°C (302°F)
Sensor Type :	Digital
Temperature Compensation:	Temperature Compensator: Pt 1000 RTD
Temperature Measurement:	-20 - 200 °C (-4 - 392°F)
Transmission Distance:	100 m (328 ft.), maximum
Transmission Distance 2:	1000 m (3280 ft.), maximum when used with a termination box
Warranty:	12 months
What's included?:	Includes: sensor with cable and manual

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