



Stainless Steel Contacting Conductivity Sensor, Low Conductivity (k=0.5), Boiler/Condensate Style

Product #: 3444B8A
ZAR Price: Contact Hach
Ships within 1 week

Ultimate accuracy from ultra-pure to high conductivity applications.

Contacting conductivity sensor with a nominal cell constant $k = 0.5 \text{ cm}^{-1}$, 3/4-inch male NPT threaded 316 stainless steel body, 6 m analogue cable, and titanium electrode.

Measuring range 0 - 1000 $\mu\text{S/cm}$, 0.001 - 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

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 (3/4-inch male NPT). They can be fastened into a boiler wall using a 3/4-inch weldolet or mounted into a process line using a standard 3/4-inch stainless pipe tee.

Sanitary Clean-in-Place (CIP) Style Sensors

Have 316 stainless steel electrodes and an integral 1-1/2-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:	$\pm 2\%$ of reading above 200 $\mu\text{S/cm}$
Cable Length:	6 m (23 ft.)
Cell constant k:	0.5
Digital Gateway:	None
Electrode Material:	Titanium and 316 Stainless Steel
Installation style:	Boiler/Condensate
Junction box:	None
Measuring range:	0 - 1000 $\mu\text{S/cm}$
Pressure Range:	0 - 300 psi (20.7 BAR)

Repeatability:	±0.5 % of reading
Response Time T90:	30 s of step change
Sensitivity:	±0.5 % of reading
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 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)