

Digital Electrodeless Conductivity Sensor, Sanitary Body Style, PFA Body Material

Product #: **D3708E2T**

ZAR Price: Contact Hach
Ships within 3 days

PFA, Sanitary (CIP) Flange Mounting Style, 6m (20 ft) Analog Cable, Electrodeless Conductivity Sensor, includes 6120800 Digital Gateway for Connecting to SC Controller and a 6122400 1m (3 ft) Digital Extension Cable

Wide Measuring Range
Hach's Inductive Conductivity Sensors measure 200 up to 2,000,000 microSiemens/cm. A built-in Pt 1000 RTD compensates the measured conductivity for changes in process temperature.

Low Maintenance Design
The inductive sensor design eliminates polarization and electrode coating problems that commonly affect conventional contacting electrode-type conductivity sensors.

Versatile Mounting Styles
Sensors can be installed using a choice of four mounting styles—immersion, insertion, union, and sanitary.

Principal of Operation
Inductive conductivity sensors induce a low current in a closed loop of solution, then measure the magnitude of this current to determine the solution's conductivity. The conductivity analyzer drives Toroid A, inducing an alternating current in the solution. This current signal flows in a closed loop through the sensor bore and surrounding solution. Toroid B senses the magnitude of the induced current which is proportional to the conductance of the solution. The analyzer processes this signal and displays the corresponding reading.

Withstands Harsh Environments
The inductive sensor is available in sanitary (CIP) flange style and convertible styles in PFA, polypropylene, PEEK, and PVDF material. Select sensors can withstand high pressures and temperatures.

Specifications

Accuracy:	± 0.01 % of reading, all ranges
Body Material:	PFA
Cable Length:	6 m fixed cable + 1 m digital cable
Flow:	Rate 3 m (10 ft.) per second, maximum
Material:	PFA
Measuring range:	200 µS/cm - 2000 mS/cm
Mounting:	Sanitary
Operating temperature range:	-10 - 200 °C
Sensor Cable:	Polypropylene and PVDF Sensors: 5 conductor (plus two isolated shields) cable with XLPE (cross-linked polyethylene) jacket; rated to 150 °C (302ºF); 6 m (20 ft.) long
Sensor Type :	Digital

Temperature Sensor :	Temperature Compensator Pt 1000 RTD
Warranty:	12 months
Wetted Materials:	Polypropylene, PVDF, PEEK or PFA
What's included?:	Includes: sensor with cable, digital gateway, extension 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)