



Be Right™



CLF10 sc with SC200 Signal Input, Combo pH

Product #: 2981000
SGD Price: Contact Hach
No availability shown

Hach’s CLF10 sc and CLT10 sc provide online amperometric solutions for real-time analysis of free or total chlorine in disinfection applications.

The CLF10 sc Free Chlorine Analyzer and CLT10 sc Total Chlorine Analyzer measure free or total chlorine continuously for real time process control. It is based on amperometric technology and is fully compatible with all of Hach's digital controllers. The CLF10 sc can be used in most municipal and industrial applications, and is best utilized where waste stream management is a constraint.

EPA-approved Free or Total Chlorine Analysis

The CLF10 sc and CLT10 sc chlorine analyzers are compliant with EPA Method 334.0, ensuring that you not only have precise process control, but reportable results as well.

No Reagents to Replace, No Waste Stream

Hach’s amperometric chlorine technology does not use reagents, eliminating the need for a sanitary drain and saving you the cost of monthly reagent replacement.

Chlorine Analysis Made Easy

The CLF10 sc and CLT10 sc are plug-and-play with Hach’s digital controllers, ensuring easy setup. Available with exclusive self-diagnostics, these instruments will alert the user to changes in the process or upcoming maintenance. Hach’s Cal Watch feature will provide a warning for pH or chlorine calibration changes, and a non-contacting flow sensor will notify users of insufficient sample flow.

Specifications

Accuracy:	Free Chlorine: ± 3 % of the reference test** (DPD) at constant pH less than 7.2 (±0.2 pH unit)
Accuracy 2:	Free Chlorine: ± 10 % of the reference test** (DPD) at stable pH less than 8.5 (±0.5 pH unit from the pH at calibration)
Accuracy 3:	Total Chlorine: ± 10 % of the reference test** (DPD) at stable pH less than 8.5 (±0.5 pH unit from the pH at calibration)
Accuracy 4:	Total Chlorine: ± 20 % of the reference test** (DPD) at stable pH greater than 8.5
Cable Connection:	5 pin, M12 connector
Cable Length:	1 m (between gateway and sc controller)
Calibration Method:	1-point or 2-point (zero and slope) calibration
Certifications:	CE compliant for conducted and radiated emissions:
	- CISPR 11 (Class A limits)
	- EMC Immunity EN 61326-1 (Industrial limits)
	Additional certifications when connected to an sc controller

Connection Drain Line:	pH Flow Cell Outlet: 1/2-inch ID
Connections:	1/4 inch OD
Controller:	Single Digital
Controller Compatibility:	sc controller platform
Controller Options:	Single Input
Description :	CLF10sc with SC200 Signal Input, Combo pH
Dimensions:	Sensor Only: 195
Fitting type:	USA
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Interferences:	Monochloramine, chlorine dioxide, ozone, and chalk deposits
Length:	Sensor: 195 mm
Lower Limit of Detection (LOD):	30 ppb (0.03 ppm)
Material:	Corrosion-resistant materials, fully-submersible (stainless steel, PEEK, PVC, silicon rubber and polycarbonate)
Measurement method:	Reagentless, electrochemical, three-electrode amperometric system
Mounting:	Panel or Wall Mounting
Operating temperature range:	0 - 45 °C
Options:	SC200 Controller & Combination pH Sensor
Parameter:	Free Chlorine
pH Compensation Required?:	with pH Combination
pH Range:	4 - 9
Power requirements (Voltage):	110 - 230 V AC
Pressure Range:	0.5 bar, no pressure impulses and/or vibrations
Range:	0 - 20 ppm Cl ₂
Region:	US
Repeatability:	30 ppb or 3%, whichever is greater
Response Time:	Total Chlorine: 100 s or less for 90% change (T90) at a stable temperature and pH
Sample Flow Rate:	30 - 50 L/h (7.9 - 13.2 gal/hour), Optimal is 40 L/hour (10.5 gal/hour)
Sample Temperature:	5 - 45°C (41 - 113°F)
Storage conditions:	-20 °C to 60 °C dry
Warranty:	1 Year
Weight:	13.85 kg Approximately 5.5 kg (12 lbs) Panel and empty panel-mounted components only

What's in the box?

SC200 Controller, Mounting Hardware, SC200 Basic User Manual, CL10sc Panel, 1 m digital extension cable, Panel Manual, Combination pH Sensor Manual, Chlorine Sensor Manual.

Required Accessories

- SC200 Universal Controller: 100-240 V AC with two digital sensor inputs and two 4-20 mA outputs (Item LXV404.99.00552)

- SC200 Universal Controller: 100-240 V AC with two digital sensor inputs, Modbus RS232/RS485 and two 4-20 mA outputs (Item LXV404.99.01552)