



CLF10 sc Free Chlorine Analyzer with SC200 Controller

Product #: 2982300

OBSOLETE ITEM

This item is no longer available.

Hach's answer to reagentless amperometric chlorine measurement.

The CLF10sc Free Chlorine Analyzer measures free chlorine continuously for real time process control. It is based on amperometric technology and comes with the SC200 digital controller. The CLF10sc can be used in most municipal and industrial applications, and is best utilized where waste stream management is a constraint.

Compatible with Hach's "Plug and Play" Digital Controllers

The CLF10 sc and CLT10 sc Chlorine Analyzers are designed to be used with all Hach sc digital controllers. Set up is fast and easy, and the system is compatible with the full line of Hach digital sensors.

No Reagent Replacement, No Waste Stream

Chlorine measurement with the CLF10sc and CLT10sc amperometric technology eliminates the need for routine reagent replacement and waste stream management.

EPA Compliance

The CLF10 sc and CLT10 sc analyzers can be used for reporting chlorine residual measurements in accordance with EPA Method 334.0. Additionally, Hach has created a suite of laboratory products and methods to help with startup and quality control procedures required for Method 334.0.

Advanced Diagnostics

CLF10sc and CLT10sc advanced diagnostics alert you when the process has changed or the instrument needs servicing. Diagnostic features include the Cal Watch algorithm for warning of pH and chlorine calibration deviation and a non-contacting sample flow sensor for notification of insufficient sample flow.

Real-time Process Monitoring and Control

The CLF10sc and CLT10sc Chlorine Analyzers allow for real-time monitoring and control of disinfection processes.

Specifications

Accuracy: Free Chlorine: \pm 3 % of the reference test** (DPD) at constant pH less than 7.2 (\pm 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: $\pm 10\%$ 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

Connection Sample Line: 1/4 inch OD
Controller: Dual Digital

Controller Compatibility: SC200, SC1000, SC4500. All controllers sold separately

Controller Options: Dual Input

Description: CLF10sc Free Chlorine Analyzer with SC200 Controller

Dimensions: Sensor Only: 195

Fitting: USA Fitting Type: USA

Interferences: Free chlorine: monochloramine, chlorine dioxide, ozone, and chalk deposits.

Total chlorine: 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
Parameter: Free Chlorine

pH Monitoring Required?: None pH Range: 4 - 9

Power requirements (Voltage): 110 - 230 VAC

Pressure Range: 0.5 bar, no pressure impulses and/or vibrations

Range: $0 - 20 \text{ ppm } Cl_2$

Repeatability: 30 ppb or 3%, whichever is greater

Response time: Free Chlorine: 140 s or less for 90% change (T90)

at a stable temperature and pH

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

Sample Temperature: 5 - 45°C (41 - 113°F)
Storage conditions: -20 °C to 60 °C dry

Warranty: 12 months

Weight: 12.55 kg Approximately 5.5 kg (12 lbs)

Panel and empty panel-mounted components only

What's included?: SC200 Controller, Mounting Hardware, SC200 Basic User Manual, CL10sc Panel, 1 m digital

extension cable, Panel Manual, Chlorine Sensor Manual.

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