



CLF10 sc Free chlorine analyser, pHD sensor, metric

Product #: LXV45A.98.23022

AED Price: Contact Hach

CLF10 sc: Free reagentless chlorine sensor

The Free Chlorine Analyser measures free chlorine continuously for real time process control. It is based on amperometric technology and is fully compatible with Hach's digital SC controllers. The analyser can be used in most municipal and industrial applications, and is best utilised where waste stream management is a constraint. The self diagnostics alerts you when the process has changed or the instument 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. All warnings are easy to configure.

Disinfection under control

Hach's self diagnostics alerts you when the process has changed or when the instument 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. All warnings are easy to configure.

Minimal operation costs

The amperometric sensors monitor chlorine concentration continuously without reagents. There is no need to replace reagents nor to manage disposal. This saves time and keeps operation costs at a low level.

Plug and play

The sensors are designed for all Hach digital SC controllers so you only need one controller for all measurements. They are easy to operate, no matter if measuring turbidity or chlorine. Hach SC controllers have no complicated wiring or setup procedures. Just plug in any Hach digital sensor and it's ready to use without software configuration.

Real-time process control

Continuous readings indicate when treatment conditions have changed allowing CLT10 sc and CLF10 sc a real-time control of disinfection processes.

EPA compliant according to Method 334.0

In accordance with the US EPA Method 334.0, the sensors can be used for reporting chlorine residual measurements.

Specifications

Accuracy: Free Chlorine: \pm 3 % of the reference test** (DPD) at constant pH less than 7.2 (\pm 0.2 pH unit)

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/ETL, EMC

Connection drain line: 1/2 in ID
Connections: 1/4 in OD

Controller: Panel only

Controller compatibility: SC controller platforms

Detection limit: 30 ppb (0.03 ppm)

Dimensions: Sensor Only: 195

Fitting: Metric

Flow rate: 30 - 50 L/h, optimal is 40 L/hour

Interferences: Free Chlorine: Monochloramine, chlorine dioxide, ozone, and chalk deposits. Total Chlorine:

Chlorine dioxide, ozone and chalk deposits

Length: Sensor: 195 mm

Material: Panel: Corrosion-resistant, fully-submersible (stainless steel, PVC, silicon rubber and

polycarbonate)

Measurement method: Reagentless, electrochemical, three-electrode amperometric system

Measuring range: 0 - 20 ppm Cl₂

Mounting: Flat, vertical surface

Operating temperature range: 0 - 45 °C

Options: pHD Differential Sensor

Parameter: Free Chlorine

pH Monitoring Required?: mit pHD-Differenzsensor

pH Range: 4 - 9
Power requirements (Voltage): None

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

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 temperature: 5 - 45 °C

Storage conditions: -20 °C - 60 °C dry

Temperature compensation: Internal temperature compensation in the sensor

Warranty: 24 months

Weight: Approximately 5.5 kg

Panel and empty panel-mounted components only

What's included?: CL10sc Panel, 1 m Digital Extension Cable, pHD Differential Sensor, Panel Manual, Chlorine

Sensor Manual, pHD Sensor Manual

Width: 495.3 mm

What's included?

CL10sc Panel, 1 m Digital Extension Cable, pHD Differential Sensor, Panel Manual, Chlorine Sensor Manual, pHD Sensor Manual

Required Accessories

- 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)