CLT10 sc Total chlorine sensor, pH combination sensor (on panel)

Product #:   LXV45B.98.22022

AED Price: Contact Hach

CLT10 sc: Total reagentless chlorine sensor

Total chlorine sensor with pH combination sensor (on panel)

The CLT10 sc Total Chlorine Analyser measures 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 CLT10 sc can be used in most municipal and industrial applications, and is best utilised where waste stream management is a constraint. Hach's 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
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.

Minimal operation costs
Chlorine measurement with the CLF10 sc and CLT10 sc amperometric technology eliminates the need for routine reagent replacement and waste stream management.

Plug and play
The CLF10 sc and CLT10 sc analysers 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.

Real-time process control
CLF10 sc and CLT10 sc advanced diagnostics alert 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.

EPA compliant according to Method 334.0
The CLF10 sc and CLT10 sc Chlorine Analysers allow for real-time monitoring and control of disinfection processes.

Specifications

Accuracy:	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:	1/2 in ID
Connections:	1/4 in OD
Controller:	Panel only
Controller compatibility:	sc controller platforms
Description:	CLT10sc Total Chlorine Sensor, pH combination sensor (On Panel)
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:	e 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 Cl_2
Mounting:	Panel or Wall Mounting
Operating temperature range:	0 - 45 °C
Options:	Combination pH Sensor
Parameter:	Total Chlorine
pH Monitoring Required?:	with pH Combination
pH Range:	4 - 9 pH
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, pH Combination Sensor, Panel Manual, Chlorine Sensor Manual, pH Combination Sensor Manual
Width:	495.3 mm

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CL10sc Panel, 1 m Digital Extension Cable, pH Combination Sensor, Panel Manual, Chlorine Sensor Manual, pH Combination 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)