

# CL500 Chlorine Analyzer

Online Meter for Free or Total Chlorine Measurements



## Description

The CL500 Free/Total Chlorine Analyzer is an accurate and reliable instrument for continuous online free or total chlorine residual measurement. The CL500 uses the reliable and economical, colorimetric DPD (N,N-diethyl-p-phenylenediamine) chemistry, proven to be the most accurate method for measuring free or total residual chlorine. With no troublesome mixing or pump components to wear out, the CL500 provides reliable operations with minimal maintenance.

The CL500's user selectable sample settings conserves reagents by allowing you to set the cycle time from 90 seconds up to 10 minutes. The low volume reagent and sample chamber saves on reagent costs and decreases water consumption. A removable sample cuvette allows for simple cleaning and maintenance, and the viewable sample chamber provides a clear view of the sample cuvette while the instrument is sampling.

The CL500 provides a programmable 4-20 mA output signal that may be used with one of our chart recorders for reporting purposes or to control a chemical feed system. There are also two user-selectable Hi/Low limit relays that can trigger one of our AD200 autodialers or a local alarm system. The unit's compact and corrosion-resistant NEMA 4X (IP66) enclosure allows for a simple installation.

The CL500 comes with an inline pressure regulator, replacement tubing/cuvette kit (one year supply), a power supply, and an owners manual. Please note that reagents must be purchased separately.

## Features

- Proven colorimetric DPD chemistry
- Reliable, low maintenance design
- Range of 0 to 10 ppm
- EPA accepted method

## Applications

Ideal for monitoring and controlling the residual in water and wastewater treatment plants.

## Specifications

Range	0 to 10 mg/l
Cycle Time	User selectable, 90 seconds to 10 minutes
Resolution	0.01 mg/l
Accuracy	± 5% or 0.03 mg/l of Cl <sub>2</sub> , whichever is greater
Method	USEPA accepted DPD method of analysis
Standard outputs	4-20 mA and RS-485 with Modbus
User Alarms	2 user selectable alarms (form C 240VAC 2A)
Operating Temperature	5° to 40°C (41° to 104°F)
Input Pressure	1 to 200psi
Display	Backlit LCD
Enclosure	ABS Plastic, NEMA 4X, IP66
Power	100 to 240 Volt auto switchable 47 to 63hz
Certifications	CE, UL, CSA, (ETL, ETLc)
Shipping Weight	8 lbs (3.6 kg)
Shipping Dimensions	16 x 16 x 10" (41 x 41 x 26cm)

## Ordering & Options

### Chlorine Analyzer

Order No.	Description
CL500	Free/Total Chlorine Analyzer

### Reagents & Replacement Parts

Order No.	Description
09947-G	Reagent Set for Free Chlorine (30 Day)
09948-G	Reagent Set for Total Chlorine (30 Day)
09935-G	Reagent Set for Free Chlorine (60 Day)
09936-G	Reagent Set for Total Chlorine (60 Day)
09939-G	Replacement Tubing/Cell Kit
CL500-ZCK-120	Zero Calibration Kit, 120 V
CL500-ZCK-240	Zero Calibration Kit, 240 V



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