

**INFORMATION**  
PROCESS ANALYSIS  
CHLORINE ANALYSER  
CL17



## CL17 Chlorine analyser: control you can depend on

- **Colorimetric chemistry – simple, fast, accurate**
- **Fast automatic operation**
- **Complete control – minimal maintenance**

**Dependable chlorine analysis – at an affordable price**

With Hach's advanced colorimetric chemistry, the CL17 Chlorine Analyser provides a fast, reliable method of determining free or total residual chlorine. It performs around the clock, assuring proper disinfection and regulatory compliance. The CL17 also offers unbeatable cost-efficiency – with minimal reagent consumption and ultra-low maintenance.

**Applications**

- Drinking water
- Chemical/Industrial feed or process water
- Heating and cooling systems
- Food and beverage industry
- Reverse osmosis filtration systems

# The Features

## Big LCD display, intelligent menus, and flexible programming

Set-up, maintenance, and recorder/alarm programming are simple. The instrument allows many options, and they are all easily programmed with step-by-step menus and a simple keypad interface.

## Colorimetric analysis

DPD (N,N-diethyl-p-phenylenediamine) colorimetry is simple and accurate, providing a reliable method for measuring free or total residual chlorine.

## Maintenance-free mixing

The state-of-the-art mixing system in HACH's CL17 Analyzer operates with no moving parts. A self-cleaning stir bar in the sample chamber instantly generates a vigorous mixing action. The system provides fast and thorough mixing with virtually no need for maintenance.

## Innovative technology

Meanwhile, another HACH innovation prevents condensation from forming on the wall of the sample chamber. A transparent gasket\* occupies the spaces between the light source, sample chamber and detector. These light pipes, made of an optically clear RTV silicone, transmit the colorimetric beam, minimizing the risk of interference caused by high levels of humidity.

\* patent pending



## Genuine HACH reagents

Formulated to meet the strictest quality standards, Hach reagents are your guarantee of accuracy and consistency. Minimal reagent use means maximum economy.

# The Benefits

## **Colorimetric chemistry – simple, fast, accurate**

The CL17's proven colorimetric method offers high sensitivity, speed and accuracy, even in acidic or alkaline samples. A DPD indicator is oxidized by free chlorine, turning magenta in proportion to the level of chlorine present. A compact colorimeter measures color intensity and instantly calculates the concentration of either free or total chlorine.

## **Fast, automatic operation**

The HACH CL17 samples every 2.5 minutes, using less than 475 ml each of indicator and buffer over a 30-day period. A linear peristaltic pump, seal-free mixer, easy-to-clean cell, and compact colorimeter combine to ensure reliable, low-maintenance operation.

## **Complete control. Minimal maintenance.**

Another product of HACH's world class R&D, the CL17 provides non-stop security for 30 days without operator intervention. Connect an output to a feed pump, chart recorder, PLC or SCADA system. The CL17 does the rest!

## **Rugged, lightweight enclosure**

The CL17's ABS, IP62 enclosure is lightweight, strong and corrosion-resistant. Two large windows allow an easy visual check of reagents and system-status messages without opening the case. Built-in brackets are included for easy wall mounting.



# Technical data

Chlorine Analyser CL17	
Measuring method	DPD Methode (N,N-diethyl-p-Phenylendiamin)
Measuring range	0 to 5 mg/l free or total residual chlorine
Accuracy	± 5 % or 0.035 mg/l as Cl <sub>2</sub> , whichever is greater
Precision	± 5 % or 0.005 mg/l as Cl <sub>2</sub> , whichever is greater
Minimum Detection Limit	0.035 mg/l
Cycle time	One complete sample analysis every 2 1/2 minutes
Recorder outputs	One 4–20mA with an output span programmable over any portion of the 0 to 5 mg/l range 130 V isolation from earth ground
Alarms	Two alarms selectable for sample concentration alarm, analyser system warning or analyser system shut-down alarm. Each is equipped with an SPDT relay with contacts rated for 5A resistive load at 230 VAC
External outputs	AquaTrend Network interface (optional)
Power	100–115/230 VAC 50/60 Hz (switch selectable), 90 VA maximum
Enclosure	ABS plastic, IP62 enclosure rating with two clear polycarbonate windows
Dimensions	ca. 419 x 343 x 191 mm (H x B x T)
Shipping weight	11,3 kg

Subject to change without notice.

## HACH LANGE Services



Ordering, information and advice:  
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## HACH LANGE—the specialists for water analysis

### Everything from a single supplier

Whether field or laboratory analysis, samplers or process measurement technology, HACH LANGE stands for the total spectrum of water analysis –from visual methods to comprehensive systems of reagents, measurement technology and accessories.

### For every application

Solutions from HACH LANGE are tailor-made for wastewater, drinking water or process water—for reliable control of operational processes and monitoring of legally prescribed limit values.

### Parameters from A to Z

From Ammonium to Zinc—consistently user friendly and proven in daily practice. Regulatory bodies and industry know they can rely on HACH LANGE solutions for everything from sample preparation to quality control.

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