

INFORMATION
PROCESS ANALYSIS
CHLORINE ANALYSER
CL17



CL17 Chlorine analyser: control you can depend on

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

→ **In compliance with EN ISO 7393-2 and SM 4500-Cl G**

→ **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



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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 the CL17 Analyser 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.



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 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

Measuring method	DPD method (N,N-diethyl-p-Phenylendiamin)
Measuring range	0 to 5 mg/L free or total residual chlorine
Accuracy	0.03 mg/L or $\pm 5\%$, whichever is greater
Precision	0.01 mg/L or $\pm 3\%$, whichever is greater
Minimum Detection Limit	0.03 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	SC 200 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
Compliance	EN ISO 7393-2 and SM 4500-Cl G
Dimensions	419 mm x 343 mm x 191 mm (H x B x T)
Shipping weight	11.3 kg

HACH LANGE Services



Contact us to place an order, request information or receive technical support.



On site technical support.



Service packages and extended warranty up to 5 years.



Seminars and workshops:
Practical and hands on training.



Quality assurance, complete with standard solutions, instrument checks and test solutions.



www.hach-lange.com –
up to date and secure, with down-loads, information and e-shop.

ORDERING INFORMATION

ART. NO.	DESCRIPTION
5440001	Model CL17 free residual chlorine analyser
5440002	Model CL17 total residual chlorine analyser
ACCESSORIES	
5444300	Maintenance kit, 1 year, including tubing, caps, funnel, and fittings
5449000	CL17 CAL/Verification kit
4643600	Flow meter with 1/4-inch OD tubing
5448900	Power Cord, 230 V, 10 A, continental European plug
REAGENTS	
2556900	Reagent set, CL17 free chlorine
2557000	Reagent set, CL17 total chlorine
2297255	DPD indicator powder (free and total)
2314011	Free chlorine indicator solution, 473 mL
2314111	Free chlorine buffer solution, 473 mL
2263411	Total chlorine indicator solution, 473 mL
2263511	Total chlorine buffer solution, 473 mL
2835900	Calibration refill kit

Subject to change without notice.