

CHLTEST20

Portable Chlorine Multi-parameter Tester · Residual Chlorine / Total Residual Chlorine / Chlorine Dioxide

CHLTEST20 Portable Chlorine Multi-parameter Tester is a compact water-quality instrument for measurement of **residual chlorine, total residual chlorine and chlorine dioxide**. It uses the **DPD colorimetric method** with LCD display, USB data transfer, calibration curve function and portable field use support. The instrument is suitable for water disinfection checks, service inspections, sanitation control and routine laboratory or field water testing.

PORTABLE TESTER

RESIDUAL CHLORINE

TOTAL CHLORINE

CHLORINE DIOXIDE

DPD METHOD

528 NM LED

LCD

USB

5000 RECORDS

IP67

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Product family: Portable Photometric / Colorimetric Water Quality Tester

Model: CHLTEST20

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Format: A4 landscape · COLO.Science TechSpec template with navigation links



CHLTEST20 · portable chlorine tester for residual chlorine, total chlorine and chlorine dioxide

MODEL

CHLTEST20
Portable tester

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COLO.SCIENCE HOME

REQUEST QUOTE

PRODUCT PAGE

WATER QUALITY KNOWLEDGE

CHLTEST20 · technical specification

Portable tester for residual chlorine, total residual chlorine and chlorine dioxide

RESIDUAL CHLORINE 0.02–15 MG/L

TOTAL CHLORINE 0.02–15 MG/L

CLO₂ 0.02–5 MG/L

IP67

- Compact water-disinfection tester for field and laboratory workflows

Product Overview

Application profile

Water disinfection: designed for residual chlorine, total residual chlorine and chlorine dioxide testing.

Portable workflow: compact dimensions, carrying case concept and battery operation support indoor and outdoor use.

Routine checks: suitable for drinking water, treated water, process water, sanitation checks and service inspections.

Photometric method: DPD colorimetric detection with LCD reading and stored standard curve support.

Design and handling advantage

LCD display: clear readout of measurement data during routine water testing.

Convenient detection: portable case and consumable reagents support field and laboratory use.

Calibration function: curve calculation and storage can be performed according to standard samples.

Power saving: automatic shutdown after 10 minutes without operation reminder.

Key features

Multi-parameter chlorine testing: residual chlorine, total residual chlorine and chlorine dioxide.

Data storage: stores up to 5000 pieces of data.

USB communication: supports upload of stored data to a computer.

Optional printing: compatible with portable thermal printer for current and historical data.

IP protection: IP67 rating for demanding portable use.

METHOD

DPD colorimetric

WAVELENGTH

528 nm LED

STORAGE

5000 records

PROTECTION

IP67

Measurement indexes

Residual chlorine: 0.02–15 mg/L.

Total residual chlorine: 0.02–15 mg/L.

Chlorine dioxide: 0.02–5 mg/L.

Absorbance mode: 0–2.5 Abs.

Measurement and Optical Specifications

Measured indexes

Index	Measuring range	Method / notes
Residual chlorine	0.02–15 mg/L	DPD colorimetric workflow
Total residual chlorine	0.02–15 mg/L	DPD colorimetric workflow
Chlorine dioxide	0.02–5 mg/L	Water disinfection control
Measuring mode	Absorbance	0–2.5 Abs
Accuracy	$\Delta V \leq \pm 10\%$	Method and sample dependent
Repeatability	$\leq \pm 5\%$	Under appropriate test conditions
Number of curves	5	Curve function supported
Calibration function	Can calculate and store the curve according to standard samples; curve parameters can be changed.	

Method note

Reagents: correct DPD reagent handling, blanking and clean cuvettes are essential for repeatable results.

Sample matrix: colour, turbidity, oxidants and handling time may influence practical chlorine readings.

Optics and photometric system

Parameter	Specification	Notes
Optical stability	<0.005 A / 20 min	Instrument stability reference
Light source	Light Emitting Diode	LED source
Spectral wavelength	528 nm	Colorimetric chlorine workflow
Spectral bandwidth	15 nm	Optical bandwidth
Test tube	25 mm colorimetric tube	Use clean tubes for reliable readings
Display screen	LCD	Measurement data display
High precision note	The standard curve has been set; measurement results are designed to be accurate and stable when the method is followed.	

Practical detection note

Field use: the instrument is intended for convenient indoor and outdoor detection with carrying case and professional reagents.

Documentation: stored results can be uploaded to a computer through USB for routine reporting.

ABSORBANCE

0–2.5 Abs

WAVELENGTH

528 nm

BANDWIDTH

15 nm

Data handling and operation

Storage: up to 5000 data records for routine documentation.

Transfer: USB upload to computer; optional portable thermal printer for current and historical data.

Power saving: automatic shutdown after 10 minutes without operation reminder.

Technical values are provided for product selection and orientation. Reagent package, calibration routine, optional printer and accessory configuration should be confirmed through the official COLO.Science quotation or manufacturer-confirmed offer.

Power, Environmental Conditions, Supply and Applications

Power, dimensions and environment

Parameter	Specification
Working conditions	0–50 °C, ≤85% RH
IP protection	IP67
Dimensions	160 × 70 × 35 mm
Power supply	4 × AA / LR6 batteries and 8.4 V power adapter (220 V)
Power support	Battery power and AC power support
Power consumption	0.3 W
Net / gross weight	0.3 kg / 0.5 kg

Operation summary

LCD workflow: simple operation and direct display of measurement data.

Data workflow: storage, USB transfer and optional printing are summarized on Page 3.

Portable use: battery support and IP67 protection support field operation.



CHLTEST20 · portable chlorine multi-parameter tester · field and laboratory water disinfection testing

Standard and optional supply

Item	Details
Standard accessories	Set of 4 cuvettes
Carrying case	Carrying case for instrument and reagents described in product features
Consumable reagents	Professional consumable reagents; final set to be confirmed in quotation
Optional printer	Portable thermal printer for current and historical data
Power accessories	Battery operation and 8.4 V power adapter support

Why CHLTEST20

Three chlorine-related indexes: residual chlorine, total residual chlorine and chlorine dioxide in one portable tester.

Field-ready workflow: compact dimensions, LCD readout, IP67 protection and portable carrying case concept.

Data workflow: 5000 stored records, USB transfer and optional printer for documentation.

Calibration support: stored curve parameters help standardize routine measurements.

Typical applications

Drinking water: residual disinfectant checks in treated water systems.

Sanitation and service: quick chlorine checks during maintenance and inspection work.

Process water: routine chlorine monitoring in industrial and facility workflows.

Field testing: portable measurements where instrument, reagents and documentation must travel together.

Configuration notice

Reagents, printer, carrying case contents and accessories may vary by quotation and application. The official offer defines the final scope of supply.

Selection and Use Notes

For chlorine monitoring

Parameter choice: confirm whether residual chlorine, total residual chlorine or chlorine dioxide is required.

Range check: verify that expected sample concentrations fit the stated measuring ranges.

For DPD workflow

Reagents: select the correct reagent set and shelf-life management for the intended method.

Cuvettes: use clean 25 mm colorimetric tubes and consistent sample handling.

For reporting

Data: USB transfer and 5000 stored records support routine documentation.

Optional printer: add portable thermal printer where on-site printed records are needed.

Configuration notice

Portable chlorine testers may be delivered with different reagent sets, cuvettes, printer options, carrying case contents and accessories depending on the selected application and quotation. The official quotation defines the final scope of supply. Website and technical-sheet content is provided for general product presentation and may not represent the exact delivered configuration. Specifications may change without notice.

MANUFACTURER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: Send the target chlorine parameter, expected measuring range, sample type, reagent requirements, reporting workflow and field/laboratory use case. COLO.Science can help confirm the correct CHLTEST20 configuration and accessory set for your measurement workflow.

QUICK CONTACT

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Product: [CHLTEST20 product page](#)

COLO.SCIENCE · CHLTEST20 PORTABLE CHLORINE TESTER SUPPORT

Need help selecting the correct chlorine testing configuration?

Send the target analyte, expected concentration range, sample matrix, reporting needs and preferred accessories. COLO.Science can support CHLTEST20 product selection, reagent confirmation and quotation preparation.

[Request quote](#)[Product page](#)[Water quality resources](#)

This technical sheet is an informational product-selection document. Final configuration and official technical values should be verified in the manufacturer-confirmed quotation.