

DR300 Pocket Colorimeter

Applications

- Drinking Water
- Wastewater
- Power
- Industrial Water
- Field Use
- Beverage
- Food QC Lab



Proven past. Innovative future.

The DR300 maintains the Pocket Colorimeter legacy of reliability while providing state-of-the-art data transfer capability and connection to Claros*. Reduce data collection hassles, eliminate transcription errors, and ensure stronger compliance traceability.

Connected*

Optional Bluetooth connectivity allows you to safely transfer measurement data to Claros – Hach®'s Water Intelligence System – reducing errors and saving time by eliminating manual data entry.

Reliable

Rugged, waterproof (IP67) design withstands whatever conditions you encounter in the field (drops, extreme temperatures, rain and dirt) and still delivers years of dependable, accurate measurements.

Simple

Simple, intuitive operation reduces potential manual error, ensuring accurate measurement data you can trust, time after time. Larger display with improved backlight makes reading measurements in all conditions even easier.

*Claros connectivity currently available only in US, Canada and EU.



Technical Data*

Source Lamp	Light emitting diode (LED)
Detector	Silicon photodiode
Enclosure Rating	IP67, waterproof at 1 m for 30 minutes
Wavelength	As specified by model, ± 2 nm
Spectral Bandwidth	15 nm filter bandwidth
Absorbance	0 - 2.5 Abs
Sample Cell Compatibility	1 cm (10 mL), 25 mm (10 mL)

Operating Conditions	0 - 50 °C (32 - 122 °F); 0 - 90% relative humidity (non-condensing)
Display	LCD with backlight
Power Supply	Four AAA alkaline batteries; approximate life is 5000 tests
Data Logger	Last 50 measurements
Weight	0.25 kg (0.55 lbs.)
Dimensions (H x W x D)	34 mm x 69 mm x 157 mm

*Subject to change without notice.

Parameters

Parameter	Range	Measurement Method
Aluminum	0.02 - 0.80 mg/L Al	Aluminon
Ammonia	0.01 - 0.80 mg/L $\text{NH}_3\text{-N}$	Salicylate
Bromine	0.05 - 4.50 mg/L Br_2 0.2 - 10.0 mg/L Br_2	DPD
Chlorine, free ¹⁾ + total ^{1), 2)}	0.02 - 2.00 mg/L Cl_2 0.1 - 8.0 mg/L Cl_2	DPD
Chlorine, free ¹⁾ + total ^{1), 2)} , MR	0.05 - 4.00 mg/L Cl_2 0.1 - 10.0 mg/L Cl_2	DPD
Chlorine, pH	0.1 - 10.0 mg/L Cl_2 6.0 - 8.5 pH	DPD Phenol Red
Chlorine dioxide	0.05 - 5.00 mg/L ClO_2	DPD/Glycine
Iron, Ferrover ²⁾	0.02 - 5.00 mg/L Fe	Ferrover
Iron, TPTZ	0.01 - 1.70 mg/L Fe	TPTZ
Manganese, HR ²⁾	0.2-20.0 mg/L Mn	Periodate Oxidation
Molybdenum	0.02 - 3.00 mg/L Mo 0.1 - 12.0 mg/L Mo	Ternary Complex
Monochlor/Free Ammonia	0.04 - 4.50 mg/L Monochloramine as Cl_2 0.02 - 0.50 mg/L Free Ammonia as $\text{NH}_3\text{-N}$	Indophenol
Nitrate	0.4 - 30.0 mg/L $\text{NO}_3\text{-N}$	Cadmium Reduction
Oxygen, dissolved	0.2 - 10.0 mg/L O_2	HRDO
Ozone	0.01 - 0.25 mg/L O_3 0.01 - 0.75 mg/L O_3	Indigo Trisulfonate
Phosphate ^{1), 2)}	0.02 - 3.00 mg/L PO_4	Phosver 3
Zinc ²⁾	0.02 - 3.00 mg/L Zn	Zincon

¹⁾Method is USEPA accepted or approved for drinking water (additional steps may be required)

²⁾Method is USEPA accepted or approved for wastewater (additional steps may be required)

Note: Phenol Red colorimetric pH measurement is not accepted for regulatory reporting

Order Information

DR300 Pocket Colorimeters

The DR300 Pocket Colorimeter includes manual, sample cells, and a carrying case. Reagents can be purchased by contacting Hach or your Hach distributor.

LPV445.97.00110	DR300 Pocket Colorimeter, Chlorine, Free + Total
LPV445.97.01110	DR300 Pocket Colorimeter, Bromine
LPV445.97.02110	DR300 Pocket Colorimeter, Nitrate
LPV445.97.03110	DR300 Pocket Colorimeter, Dissolved Oxygen
LPV445.97.04110	DR300 Pocket Colorimeter, Ozone
LPV445.97.06110	DR300 Pocket Colorimeter, Phosphate
LPV445.97.09110	DR300 Pocket Colorimeter, Zinc
LPV445.97.10110	DR300 Pocket Colorimeter, Molybdenum, LR/HR
LPV445.97.12110	DR300 Pocket Colorimeter, Chlorine & pH
LPV445.97.15110	DR300 Pocket Colorimeter, Manganese, HR
LPV445.97.16110	DR300 Pocket Colorimeter, Iron, TPTZ
LPV445.97.22110	DR300 Pocket Colorimeter, Iron, Ferrower
LPV445.97.25110	DR300 Pocket Colorimeter, Aluminium
LPV445.97.26110	DR300 Pocket Colorimeter, Monochloramine/Free Ammonium
LPV445.97.40110	DR300 Pocket Colorimeter, Ammonium
LPV445.97.51110	DR300 Pocket Colorimeter, Chlorine Dioxide
LPV445.97.62110	DR300 Pocket Colorimeter, Chlorine, Free + Total, MR

Wavelength-specific DR300 Pocket Colorimeters

Program custom methods and calibrations on two channels.

LPV445.97.50110	DR300 Pocket Colorimeter, 500 nm
LPV445.97.52110	DR300 Pocket Colorimeter, 528 nm
LPV445.97.60110	DR300 Pocket Colorimeter, 600 nm
LPV445.97.65110	DR300 Pocket Colorimeter, 655 nm



Order Information

Accessories

2635300	SpecCheck secondary gel standard kit, LR Chlorine, DPD, 0-2.0 mg/L Cl ₂
2893300	SpecCheck secondary gel standard kit, Chlorine, DPD, 0-8.0 mg/L Cl ₂
2507500	SpecCheck secondary gel standard kit, Monochloramine/Free Ammonia, 0-4.50 mg/L Cl ₂ , 0-0.50 mg/L NH ₃ -N
2708000	SpecCheck secondary gel standard kit, Ozone, 0-0.75 mg/L O ₃
4674300	Batteries, AAA, Alkaline, 1.5 V, pk/4
4660200	Multitest kit case (22 x 17 x 15 cm), blue polypropylene
2427606	Sample cell, 1 inch round glass, 6 pcs
4864302	Sample cell, 1 inch round polystyrene, 2 pcs
2126102	Sample cell, 1cm round, pk/2 (unmatched, caps not included)

SpecCheck Ampule Standards are colored gels that simulate the color produced by the analytical procedure, for simple checks on instrument response. Each set includes a blank and three concentrations.

Be confident with Hach Service

Service Agreement: Hach provides on-site and in-factory repair, preventive maintenance, and calibration programs for your instruments to ensure reliability and instrument up-time. We have services to fit your specific needs.

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Printed in U.S.A.

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