

Colorimeters

Portable testing can be complicated and requires equipment built to handle the unique stresses present in the field. Hach has refined the colorimeter technology into effective and accurate hand held solutions that support your testing needs. Whether you are looking for a single parameter testing device, or something that supports up to 90 of the most preprogrammed water testing methods, Hach has a solution that will support your needs. All solutions are light weight and built to go anywhere.

1) DR300 Pocket Colorimeter

Proven past. Innovative future.

Meet the newest Hach pocket colorimeter

How do you make the best portable colorimeter on the market? Start with the tried and true Hach Pocket Colorimeter II – one that has been used by hundreds of thousands of water professionals



in harsh conditions for almost two decades – and make key mechanical improvements: upgraded waterproofing; larger display; ergonomic design. Then infuse it with the smart capabilities that modern technology has to offer: optional Bluetooth connectivity with automatic data transfer, and seamless system integration*. The result is the Hach DR300 Pocket Colorimeter, the next generation in portable instrumentation. Reduce data collection hassles, eliminate transcription errors, and ensure stronger compliance traceability.

Part Number	Parameter	Measuring range	Measurement method	Wavelength
LPV445.99.00110	Chlorine, free + total	0.02 - 2.00 mg/L Cl ₂ 0.1 - 8.0 mg/L Cl ₂	DPD	528 ±2 nm
LPV445.99.01110	Bromine	0.05 - 4.50 mg/L Br ₂ 0.2 - 10.0 mg/L Br ₂	DPD	528 ±2 nm
LPV445.99.02110	Nitrate	0.4 - 30.0 mg/L NO ₃ -N	Cadmium Reduction	528 ±2 nm
LPV445.99.03110	Oxygen, dissolved	0.2 - 10.0 mg/L O ₂	HRDO	528 ±2 nm

LPV445.99.04110	Ozone	0.01 - 0.25 mg/L O ₃ 0.01 - 0.75 mg/L O ₃	Indigo Trisulfonate	600 ±2 nm
LPV445.99.06110	Phosphate	0.02 - 3.00 mg/L PO ₄	Phosver 3	600 ±2 nm

- Single Parameter go-anywhere portable photometer
- Battery operation for a maximum of 5000 tests
- Waterproof instrument IP67 (even better than PCII)
- Larger, better display
- Data connectivity. Bluetooth to Claros*

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

DR300 Pocket Colorimeters are NOT sold with chemical reagents. Reagents must be purchased separately.

Part Number	Parameter	Measuring range	Measurement method	Wavelength
LPV445.99.09110	Zinc	0.02 - 3.00 mg/L Zn	Zincon	600 ±2 nm
LPV445.99.10110	Molybdenum	0.02 - 3.00 mg/L Mo 0.1 - 12.0 mg/L Mo	Ternary Complex	600 ±2 nm
LPV445.99.12110	Chlorine, pH	0.1 - 10.0 mg/L Cl ₂ 6.0 - 8.5 pH	DPD Phenol Red	528 ±2 nm
LPV445.99.15110	Manganese	0.2 - 20.0 mg/L Mn	Periodate Oxidation	528 ±2 nm
LPV445.99.16110	Iron	0.01 - 1.70 mg/L Fe	TPTZ	600 ±2 nm
LPV445.99.22110	Iron	0.02 - 5.00 mg/L Fe	Ferover	500 ±2 nm
LPV445.99.25110	Aluminium	0.02 - 0.80 mg/L Al	Aluminon	528 ±2 nm

LPV445.99.26110	Monochloramine/Free Ammonium	0.04 - 4.50 mg/L Monochloramine as Cl ₂ 0.02 - 0.50 mg/L Free Ammonia as NH ₃ -N	Indophenol	655 ±2 nm
LPV445.99.40110	Ammonium	0.01 - 0.80 mg/L NH ₃ -N	Salicylate	655 ±2 nm
LPV445.99.50110				500 ±2 nm
LPV445.99.51110	Chlorine dioxide	0.05 - 5.00 mg/L ClO ₂	DPD/Glycine	528 ±2 nm
LPV445.99.52110				528 ±2 nm
LPV445.99.60110				600 ±2 nm
LPV445.99.62110	Chlorine, free + total, MR	0.05 - 4.00 mg/L Cl ₂ 0.1 - 10.0 mg/L Cl ₂	DPD	528 ±2 nm
LPV445.99.65110				655 ±2 nm

2) DR900 Robust portable datalogging colorimeter

Portable and robust, micro-processor-controlled colorimeter with power-saving LED technology. Pre-programmed with 90 Hach Methods.

The handheld colorimeter allows for quick and easy access to your most frequently used testing methods in less than four clicks. This colorimeter is waterproof, dustproof, shock resistant, and has been drop tested for greater quality assurance.



This instrument comes with an intuitive user interface, a large data storage and a built-in USB port for the easy transfer of information. The portable colorimeter also helps satisfying core testing needs by offering at least 90 of the most common testing parameters.

Combining all these features with a push button backlit display for use in low light areas, you have a portable colorimeter which is field-ready, and makes testing in harsh field environments a little less challenging.

Rugged construction

Dustproof, waterproof, shockproof

Designed for use in the field

True handheld analysis for use anywhere

Easy to use

Menu driven, step-by-step analysis

Reliable results without a main connection

Improved user interface allowing quick selection of tests

Configured for immediate use

Pre-programmed, ready to use "out of the box"

Specifications:

Battery life:	6 months (typical) at 5 readings a day / 5 day week without backlight (backlight usage will decrease battery life)
Battery requirements:	4 AA size batteries
Cuvette compatibility:	1 inch round / 16 mm round (with adapter)
Detector:	Silicon photodiode
Dimensions (H x W x D):	231 mm x 96 mm x 48 mm
Display:	Graphical display 240 x 160 pixel (Backlit)
Enclosure waterproof rating:	IP67
Environmental conditions: relative humidity:	max. 90 % relative humidity (non-condensing)
Includes:	DR 900 Colorimeter, two 1-inch glass sample cells marked at 10, 20 and 25 mL, two 1 cm plastic sample cells, 1 x 16-mm COD/TEST'N'TUBE adapter, 4 AA alkaline batteries, instrument manual multilingual printed, instrument and procedure manuals on CD; USB Mini to USB cable, European CE mark.
Interface:	USB type Mini IP67
Manual languages:	English, French, German, Italian, Spanish, Portuguese, Bulgarian, Chinese, Czech, Danish, Dutch, Finnish, Greek, Hungarian, Japanese, Korean, Polish, Romanian, Russian, Slovenian, Swedish, Turkish

Operating conditions:	10 - 40 °C (50 - 104 °F), max. 80 % relative humidity (non- condensing)
Operating mode:	Transmittance (%), Absorbance and Concentration
Optical system:	0 / 180 ° transmittance
Photometric accuracy:	± 0.005 Abs @1.0 ABS Nominal
Photometric linearity:	± 0.002 Abs (0 - 1 Abs)
Photometric measuring range:	0 - 2 Abs
Reproducibility:	± 0.005 Abs (0 - 1 A)
Spectral Bandwidth:	15 nm filter bandwidth
Storage conditions:	-30 - 60 °C (-30 - 140 °F), max. 80 % relative humidity (non-condensing)
Stray light:	< 1.0 % at 400 nm
Supported chemistry	Hach tests
Temperature range:	0 - 50 °C
User interface:	English, French, German, Italian, Spanish, Portuguese, Bulgarian, Chinese, Czech, Danish, Dutch, Finnish, Greek, Hungarian, Japanese, Korean, Polish, Romanian, Russian, Slovenian, Swedish, Turkish
User programmes:	10
Warranty:	2 years
Wavelength accuracy:	± 1 nm
Wavelength range:	420, 520, 560, 610 nm
Wavelength selection:	Automatic
Weight:	0.6 kg with battery