HACH
Be Right™

# DR300
# Pocket Colorimeter

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




## Proven past. Accurate and fast.

The DR300 maintains the Hach Pocket Colorimeter legacy of reliability with a more user friendly design.

### Reliable
Since 1993, Hach has continued to provide premium chemistries and colorimetry instrumentation, providing 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.

### Durable
Rugged, waterproof (IP67) design withstands whatever conditions you encounter in the field or on the road (drops, extreme temperatures, rain and dirt).

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## 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 Nitrogen | 0.01 - 0.80 mg/L $NH_3$-N | Salicylate |
| Bromine | 0.05 - 4.50 mg/L $Br_2$<br>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 $Cl_2$<br>0.1 - 10.0 mg/L $Cl_2$ | DPD |
| Chlorine, pH | 0.1 - 10.0 mg/L $Cl_2$<br>6.0 - 8.5 pH | DPD<br>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, LR/HR | 0.02 - 3.00 mg/L Mo<br>0.1 - 12.0 mg/L Mo | Ternary Complex |
| Monochloramine/<br>Free Ammonium | 0.04 - 4.50 mg/L Monochloramine as $Cl_2$<br>0.02 - 0.50 mg/L Free Ammonia as $NH_3$-N | Indophenol |
| Nitrate | 0.4 - 30.0 mg/L $NO_3$-N | Cadmium Reduction |
| Oxygen, dissolved | 0.2 - 10.0 mg/L $O_2$ | HRDO |
| Ozone | 0.01 - 0.25 mg/L $O_3$<br>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, Ferrover

**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, 1 cm 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.*

## Hach Service

With Hach Service, you have a global partner who understands your needs and cares about delivering timely, high-quality service you can trust. Our Service Team brings unique expertise to help you maximize instrument uptime, ensure data integrity, maintain operational stability, and reduce compliance risk.

**World Headquarters: Loveland, Colorado USA | hach.com**

**United States**
**Outside United States**

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DOC052.53.25023.Oct2

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