

# 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\*

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

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

\*Subject to change without notice.

## Parameters

| Parameter   | Range   | Measurement Method  |
|---|---|---------------------|
| <b>Aluminum</b>   | 0.02 - 0.80 mg/L Al   | Aluminon            |
| <b>Ammonia</b>  | 0.01 - 0.80 mg/L NH <sub>3</sub> -N   | Salicylate          |
| <b>Bromine</b>  | 0.05 - 4.50 mg/L Br <sub>2</sub><br>0.2 - 10.0 mg/L Br <sub>2</sub>                                       | DPD                 |
| <b>Chlorine, free<sup>1)</sup> + total<sup>1), 2)</sup></b>     | 0.02 - 2.00 mg/L Cl <sub>2</sub><br>0.1 - 8.0 mg/L Cl <sub>2</sub>  | DPD                 |
| <b>Chlorine, free<sup>1)</sup> + total<sup>1), 2)</sup>, MR</b> | 0.05 - 4.00 mg/L Cl <sub>2</sub><br>0.1 - 10.0 mg/L Cl <sub>2</sub>                                       | DPD                 |
| <b>Chlorine, pH</b>   | 0.1 - 10.0 mg/L Cl <sub>2</sub><br>6.0 - 8.5 pH   | DPD<br>Phenol Red   |
| <b>Chlorine dioxide</b>   | 0.05 - 5.00 mg/L ClO <sub>2</sub>   | DPD/Glycine         |
| <b>Iron, Ferrover<sup>2)</sup></b>                              | 0.02 - 5.00 mg/L Fe   | Ferrover            |
| <b>Iron, TPTZ</b>   | 0.01 - 1.70 mg/L Fe   | TPTZ                |
| <b>Manganese, HR<sup>2)</sup></b>                               | 0.2-20.0 mg/L Mn  | Periodate Oxidation |
| <b>Molybdenum</b>   | 0.02 - 3.00 mg/L Mo<br>0.1 - 12.0 mg/L Mo   | Ternary Complex     |
| <b>Monochlor/Free Ammonia</b>                                   | 0.04 - 4.50 mg/L Monochloramine as Cl <sub>2</sub><br>0.02 - 0.50 mg/L Free Ammonia as NH <sub>3</sub> -N | Indophenol          |
| <b>Nitrate</b>  | 0.4 - 30.0 mg/L NO <sub>3</sub> -N  | Cadmium Reduction   |
| <b>Oxygen, dissolved</b>  | 0.2 - 10.0 mg/L O <sub>2</sub>  | HRDO                |
| <b>Ozone</b>  | 0.01 - 0.25 mg/L O <sub>3</sub><br>0.01 - 0.75 mg/L O <sub>3</sub>  | Indigo Trisulfonate |
| <b>Phosphate<sup>1), 2)</sup></b>                               | 0.02 - 3.00 mg/L PO <sub>4</sub>  | Phosver 3           |
| <b>Zinc<sup>2)</sup></b>  | 0.02 - 3.00 mg/L Zn   | Zincon              |

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

<sup>2)</sup>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.

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

### Wavelength-specific DR300 Pocket Colorimeters

Program custom methods and calibrations on two channels.

|                        |                                  |
|------------------------|----------------------------------|
| <b>LPV445.97.50110</b> | DR300 Pocket Colorimeter, 500 nm |
| <b>LPV445.97.52110</b> | DR300 Pocket Colorimeter, 528 nm |
| <b>LPV445.97.60110</b> | DR300 Pocket Colorimeter, 600 nm |
| <b>LPV445.97.65110</b> | DR300 Pocket Colorimeter, 655 nm |



## Order Information

### Accessories

|                |   |
|----------------|---|
| <b>2635300</b> | SpecCheck secondary gel standard kit, LR Chlorine, DPD, 0-2.0 mg/L Cl <sub>2</sub>  |
| <b>2893300</b> | SpecCheck secondary gel standard kit, Chlorine, DPD, 0-8.0 mg/L Cl <sub>2</sub>   |
| <b>2507500</b> | SpecCheck secondary gel standard kit, Monochloramine/Free Ammonia, 0-4.50 mg/L Cl <sub>2</sub> , 0-0.50 mg/L NH <sub>3</sub> -N |
| <b>2708000</b> | SpecCheck secondary gel standard kit, Ozone, 0-0.75 mg/L O <sub>3</sub>   |
| <b>4674300</b> | Batteries, AAA, Alkaline, 1.5 V, pk/4   |
| <b>4660200</b> | Multitest kit case (22 x 17 x 15 cm), blue polypropylene  |
| <b>2427606</b> | Sample cell, 1 inch round glass, 6 pcs  |
| <b>4864302</b> | Sample cell, 1 inch round polystyrene, 2 pcs  |
| <b>2126102</b> | 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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