

# Lovibond® Water Testing

## Tintometer® Group



### MD 200 Chlorine, pH, Cyanuric acid, tablet reagents (OTZ)

Precise results using high-quality interference filters



- Scroll memory
- Automatic switch-off
- Real-Time-Clock and date
- Calibration mode indicator

Part Number: 2860102

#### Versatile use

The MD 200 photometer can be used in almost all areas of water analysis.

#### Precise and low maintenance

The high-precision optics, which in addition to long-term stable LEDs as light sources, also offer high-quality interference filters, ensure precise and reproducible measurement results. In addition, these components make the photometer low-maintenance.

#### User friendly

The devices impress with their ease of use, ergonomic design and compact dimensions, which makes handling the devices easy and safe.

#### Reagents

Use long-term stable Lovibond® reagent tablets (5-10 years guaranteed minimum durability) or Lovibond® liquid reagents.

#### Industry

Marine Industry | Municipalities | Pool Domestic | Pool Public | Pool Services

#### Application

Boiler Water | Cooling Water | Disinfection Control | Drinking Water Treatment | Pool Water Control | Pool Water Treatment | Raw Water Treatment | Waste Water Treatment

#### MD 200 Chlorine, pH, Cyanuric acid, tablet reagents (OTZ)

Versatile, compact and: The benchtop photometer MD 200 combines high-quality interference filters with long-term stable LEDs as light sources in a high-precision optic. The result: precise measurement results at all times - no matter where you use it.

## Measuring Range

| Test Name     | Measuring Range                               | Chemical Method |
|---------------|---|-----------------|
| Chlorine HR T | 0.1 - 10 mg/L Cl <sub>2</sub> <sup>a)</sup>   | DPD             |
| Chlorine L    | 0.02 - 4.0 mg/L Cl <sub>2</sub> <sup>a)</sup> | DPD             |
| Chlorine T    | 0.01 - 6.0 mg/L Cl <sub>2</sub> <sup>a)</sup> | DPD             |
| CyA T         | 10 - 160 mg/L CyA                             | Melamine        |
| pH value L    | 6.5 - 8.4 pH                                  | Phenol Red      |
| pH-value T    | 6.5 - 8.4 pH                                  | Phenol Red      |

## Technical Data

|                                 |   |
|---------------------------------|---|
| <b>Optics</b>                   | LEDs, interference filters (IF) and photo sensor in transparent sample chamber. Depending on the version, up to 3 different interference filters are used. Wavelength specifications of interference filters:<br>430 nm $\Delta\lambda = 5$ nm<br>530 nm $\Delta\lambda = 5$ nm<br>560 nm $\Delta\lambda = 5$ nm<br>610 nm $\Delta\lambda = 6$ nm |
| <b>Wavelength Accuracy</b>      | $\pm 1$ nm  |
| <b>Photometric Range</b>        | -2500 - 2500 mAbs   |
| <b>Photometric Accuracy</b>     | 3 % FS (T = 20 °C – 25 °C)  |
| <b>Display</b>                  | backlit LCD (on keypress)   |
| <b>Interfaces</b>               | Infrared  |
| <b>Operation</b>                | Foil keypad   |
| <b>Auto – OFF</b>               | Yes   |
| <b>Calibration</b>              | Factory calibration and user calibration. Reset to factory calibration possible.  |
| <b>Internal Storage</b>         | internal ring memory for 16 data sets   |
| <b>Power Supply</b>             | 4 batteries (AA)  |
| <b>Battery Life Time</b>        | approx. 53 hours  |
| <b>Clock</b>                    | Real Time Clock and Date  |
| <b>Portability</b>              | Portable  |
| <b>Environmental Conditions</b> | temperature: 5 - 40 °C rel. humidity: 30 - 90 % (non condensing)  |
| <b>Protection Class</b>         | IP 68   |
| <b>Compliance</b>               | CE  |
| <b>Dimensions</b>               | 110 x 55 x 190 mm   |
| <b>Weight</b>                   | 455 g   |

## Delivery Scope Text

- Instrument in plastic case with 4 batteries (AA)
- 3 Round vials with lids
- Sealing rings
- 1 Stirring rod
- 1 Brush
- 1 Syringe (5 ml)
- 100 tablet reagents DPD No.1
- 100 tablet reagents DPD No.3 Evo
- 100 tablet reagents Phenol Red Photometer
- 100 tablet reagents CyA-Test
- Instruction manual
- Manual of Methods
- Certificate (COC)
- Warranty information

## Accessories

| Title  | Part Number |
|--|-------------|
| Water sampler with bottle 250 mL and lid, AF 631   | 170500      |
| Batteries (AA), set of 4   | 1950025     |
| Round cuvette 24 mm $\varnothing$ , set of 12  | 197620      |
| Sealing ring for round vials 24 mm $\varnothing$ , set of 12   | 197626      |
| Round cuvette 24 mm $\varnothing$ , set of 5   | 197629      |
| Cleaning cloth   | 197635      |
| Round cuvette 16 mm $\varnothing$ , set of 10  | 197665      |
| Adapter for round cuvettes 16 mm $\varnothing$   | 19802190    |
| Battery lid  | 19802241    |
| Fixed price service package for MD100/MD110/MD200  | 19802701    |
| Service plan - 3 years for MD100/MD110/MD200   | 19802801    |
| Verification Standard Kit MD 100 / 200   | 215670      |
| Reference Standard Kit Chlorine - 0.2 and 1.0 mg/l (MD 100/110/200)                                    | 275650      |
| Reference Standard Kit Chlorine - 0.5 and 2.0 mg/l (MD 100/110/200)                                    | 275655      |
| Reference Standard Kit Chlorine - 1.0 and 4.0 mg/l (MD 100/110/200)                                    | 275656      |
| Reference Standard Kit pH - 7.45 (MD 100/110/200)  | 275670      |
| Stirring rod, 13 cm length   | 364100      |
| Stirring rod, 10 cm length   | 364109      |
| Stirring rod, 13 cm length, set of 10  | 364120      |
| Stirring rod, 10 cm length, set of 10  | 364130      |
| Membrane filter set for use when preparing samples, 25 membrane filters 0.45 $\mu$ m, 2 syringes 20 ml | 366150      |
| 250 mL bottle, AF 631  | 375069      |
| Brush, 11 cm length  | 380230      |
| Measuring beaker, 100 ml   | 384801      |
| Cuvette stand for 6 round cuvettes $\varnothing$ 24 mm   | 418951      |
| Cuvette stand for 10 round cuvettes $\varnothing$ 16 mm  | 418957      |
| ValidCheck Chlorine 1,5 mg/l   | 48105510    |
| Factory calibration certificate ISO 9001 for MD100/MD110/MD200   | 999750      |
| Additionally for each method   | 999855      |

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