

Lovibond® Water Testing Tintometer® Group



MD 200 Chlorine, pH, Cyanuric acid, Acid capacity KS4.3, liquid reagents for Chlorine and pH (OTZ)

Precise results using high-quality interference filters



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

Part Number: 2860522

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 Public | Pool Services

Application

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

MD 200 Chlorine, pH, Cyanuric acid, Acid capacity KS4.3, liquid reagents for Chlorine and pH (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 ₂ ^{a)} | DPD |
| Chlorine L | 0.02 - 4.0 mg/L Cl ₂ ^{a)} | DPD |
| Chlorine T | 0.01 - 6.0 mg/L Cl ₂ ^{a)} | DPD |
| CyA T | 10 - 160 mg/L CyA | Melamine |
| K _{S4.3} T | 0.1 - 4 mmol/L K _{S4.3} | Acid / Indicator |
| pH value L | 6.5 - 8.4 pH | Phenol Red |
| pH-value T | 6.5 - 8.4 pH | Phenol Red |

Technical Data

| | |
|---------------------------------|---|
| Optics | 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: 430 nm $\Delta\lambda = 5$ nm 530 nm $\Delta\lambda = 5$ nm 560 nm $\Delta\lambda = 5$ nm 610 nm $\Delta\lambda = 6$ nm |
| Wavelength Accuracy | ± 1 nm |
| Photometric Range | -2500 - 2500 mAbs |
| Photometric Accuracy | 3 % FS (T = 20 °C – 25 °C) |
| Display | backlit LCD (on keypress) |
| Interfaces | Infrared |
| Operation | Foil keypad |
| Auto – OFF | Yes |
| Calibration | Factory calibration and user calibration. Reset to factory calibration possible. |
| Internal Storage | internal ring memory for 16 data sets |
| Power Supply | 4 batteries (AA) |
| Battery Life Time | approx. 53 hours |
| Clock | Real Time Clock and Date |
| Portability | Portable |
| Environmental Conditions | temperature: 5 - 40 °C rel. humidity: 30 - 90 % (non condensing) |
| Protection Class | IP 68 |
| Compliance | CE |
| Dimensions | 110 x 55 x 190 mm |
| Weight | 455 g |

Delivery Scope

- Instrument in plastic case with 4 batteries (AA)
- 3 Round vials with lids
- Sealing rings
- 1 Stirring rod
- 1 Brush
- 1 Syringe (5 ml)
- DPD 1 Buffer Solution
- DPD 1 Reagent Solution
- DPD 3 Solution
- Phenol Red Solution
- 100 tablet reagents CyA-Test
- 100 tablet reagents Alka-M Photometer
- Instruction manual
- Manual of Methods
- Certificate (COC)
- Warranty information

| 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 μ m, 2 syringes 20 ml | 366150 |
| 250 mL bottle, AF 631 | 375072 |
| 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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