

Water Testing

MD50 Colorimeters



Small Size - Big Features

Single Parameter Colorimeters for Testing in the Field

The MD50 Colorimeter from Lovibond® combines a simple interface with advanced optics to deliver the accurate and reliable results users require. The IP67 field-ready case is supplied with key accessories and reagents. With 12 models available, the MD50 fits a broad range of testing and application requirements.

SMALL SIZE - BIG FEATURES

- Advanced optical system reduces time to less than three seconds to take a measurement.*
- Rubberized side panels increase the durability of the instrument.
- Automatically stores the last 100 readings with time and date stamps. Results remain in storage even during battery exchange.
- Pre-programmed methods utilize Lovibond® reagents, including tablet, liquid, and powder options.
- Create a user-defined method with the use of Lovibond's Data Expert Software.
- Advanced data transfer options.

With a total of 12 models available and each designed for measuring a single parameter, the MD50 series of portable colorimeters from Lovibond® packs a lot of features into a rugged, hand-held instrument.

Able to perform up to 5,000 tests on a single set of batteries, and housed in a IP67 chemical-resistant case, it is built to perform. But that's not all—sharing measurement data has never been simpler. Whether you prefer USB-C connectivity or the convenience of wireless technology with the AqualX® app, the MD50 series provides seamless options to fit your workflow.



Why Lovibond?

At Lovibond, we look out for the little things that make a big difference. Making colorimetric analysis simple and accurate is at the core of what we do - and has been since Joseph Lovibond created the world's first colorimeter in 1885.

Leveraging 140 years of experience, our team of experts work to anticipate and solve operators' struggles with routine measurements - and delivered a world-class instrument, simplistic in operation and unmatched in accuracy.



AquaLX® App



Results you Can Trust

MD50 colorimeters are supplied pre-programmed with up to 3 methods for testing a single parameter. The advanced optical system delivers exceptional accuracy and speed, ensuring precise readings in record time.



Verification Standard Kit**
Code: 215700

Advanced Data Management

Store up to 100 sets of data, ensuring that all records meet standards for integrity and reliability. Keep your data organized with easy export from the field using the Lovibond AquaLX App combined with "tap to transfer" technology. Or choose a wired data transfer through USB-C using the Lovibond Data Expert Software. Programming options for one user-defined method and easy instrument updateability empower you to customize your testing protocols effortlessly.



Waterproof USB-C connection
for data export and updates



Delivery content – ready to use

- MD50
- 2 x AA batteries
- Screwdriver
- 3 x Stirring rods
- 3 x 24 mm Vials with lid
- Syringe
- Cleaning brush
- USB-C to USB-A cable
- Instruction manual
- Reagents (depends on variant) liquid, powder, or tablets

** not for MD50 Chlorine

Water Testing

MD50 Colorimeters

| Parameter | Method No. | Measurement method | Measuring range | Type of reagent used | Part number |
|------------------------|------------|---|---|----------------------|------------------|
| Chlorine, Free & Total | M110 | DPD | 0.02–2 mg/L Cl ₂ | Powder Pack | 280106 |
| | M112-2 | DPD | 0.1–10 mg/L Cl ₂ | Powder Pack | |
| Chlorine, Total HR | M105 | Potassium Iodide (KI) | 5–200 mg/L Cl ₂ | Tablets | 280140 |
| | M212 | | 0.2–16 % NaOCl | Tablets | |
| Chlorine Dioxide | M120 | DPD / Glycine | 0.02–11 mg/L ClO ₂ | Tablets | 280120 280125 |
| | M122 | | 0.04–3.8 mg/L ClO ₂ | Powder Pack | |
| COD | M130 | Dichromate / H ₂ SO ₄ | 3–150 mg/L COD | Tube Test | 280230 |
| | M134 | | 2.0–60.0 mg/L COD | | |
| | M133 | | 15–300 mg/L COD | | |
| | M131 | | 20–1500 mg/L COD | | |
| | M134 | | 200–15000 mg/L COD | | |
| Color (Hazen) | M204 | APHA / Platinum Cobalt | 10–500 Pt-Co Units | No Reagents | 280180 |
| Copper | M150 | Biquinoline | 0.05–5 mg/L Cu | Tablets | 280200 |
| | M152 | Porphyrine Indicator | 2 - 210 µg/L Cu | Powder Pack | 280205 |
| | M153 | Biquinoline | 0.05–5 mg/L Cu | Powder Pack | |
| Molybdenum | M250 | Thioglycolate | 0.6–30 mg/L Mo | Tablets | 280191 |
| | M251 | Ternary Complex | 0.05 - 3 mg/L Mo | Powder Pack + Liquid | |
| | M252 | Mercaptoacetic Acid | 0.3–40 mg/L Mo | Powder Pack | 280195 |
| Monochloramine | M63 | Indophenole | 0.02–4.5 mg/L Cl ₂ | Powder Pack + Liquid | 280150 |
| | M64 | | 0.02–4.5 mg/L Cl ₂ | Powder Pack + Liquid | |
| Ozone | M300 | DPD | 0.02–2 mg/L O ₃ | Tablets | 280130 |
| | M301 | | 0.015–1.2 mg/L O ₃ | Powder Pack | 280135 |
| Phosphate | M320 | Phosphomolybdenum Blue | 0.05 - 4 mg/L P | Tablets | 280210 |
| | M323 | Phosphomolybdenum Blue | 0.05 - 2.5 mg/L PO ₄ | Powder Pack | 280215 |
| Suspended Solids | M384 | Turbidity / Attenuated Radiation Method | 10–750 mg/L TSS | No Reagents | 280170 |
| Urea | M390 | Indophenol / Urease | 0.1–2.5 mg/L CH ₄ N ₂ O | Liquid | 280160 |
| | M391 | Indophenol / Urease | 0.2–5 mg/L CH ₄ N ₂ O | Liquid | |

Accessories

| Item | Part Number | Item | Part Number |
|---|-------------|--|-------------|
| Sample Cells, pack of 12 24 mm with lids + light shielding rings | 197620 | Cuvette stand for 6 round cuvettes Ø 24 mm | 418951 |
| Sample Cells, pack of 5 24 mm with lids + light shielding rings | 197629 | Cleaning cloth | 197635 |
| | | Light-Shielding Rings, Pack of 12 for round vials 24 mm ø | 197626 |
| | | USB-C cable, 1 M USB-C to A | 19820-081 |
| | | Brush, 10 CM | 380230 |
| | | Water Sampler, 250 ml with bottle and lid | 170500 |

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