

Lovibond® Water Testing

Tintometer® Group



AquaPRO14 - Chlorine, Bromine, pH,
Cyanuric acid, Alkalinity-m, Calcium hardness,
Total hardness, Aluminium, Copper, Iron,
Ammonium, Phosphate ortho LR

Professional Pool Photometers



- Optimized for Pool Water Analysis
- Time Saving Features that Ensure Accuracy
- Rugged, Low Maintenance Design
- Waterproof

Part Number: 278051

The MD 100 has several key features that make it a favorite among users.

Waterproof Design

The IP 68 design of this instrument ensures that the MD 100 remains water tight for up to 1 hour at 0.1 meter. Don't worry about dropping the instrument into a body of water - it floats!

Accurate, Reproducible Results

The optical system of the MD 100 utilizes LEDs and interference filters which quickly gives you results that you can be confident in.

User Calibration Mode

A one-point calibration is possible. Additionally, all MD 100 instruments have the ability to display readings directly in ABS or %T units.

One-time-Zero Function

Don't waste time waiting for your instrument to Zero after each test. When testing a new sample, zero the instrument once and all subsequent tests of that sample do not require you to re-zero the instrument.

Automatic Data Storage with Transfer Capabilities

The MD 100 automatically stores the last 16 readings with time and date stamp. These results can be transferred to a spreadsheet using the IRiM accessory.

Ergonomic Design

Whether you're using the MD 100 out in the field or in the lab, the design of the instrument makes it easy to handle and view the display. If you're using the instrument in the lab, the rubber feet on the bottom of the housing eliminates the need for two hand operation or to chase your instrument around the workbench.

Factory Programmed

All MD 100 instruments are supplied ready to use with up to 14 calibration curves. All you need to do is select the test you need, prepare your sample and test!

Scroll Driven Menu System

The simple interface allows you to quickly reach the test you need. When the instrument is turned on, it will automatically display the last test used.

2-Year Manufacturer's Warranty

Industry

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

Application

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

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The Lovibond® MD 100 6in1 Pool Photometer is a multi-parameter instrument which allows for fast and easy measurement of pool water quality. Six key parameters can be measured utilizing tablet reagents. Ideal for poolside testing, the MD 100 comes ready to use with all of the reagents and accessories required for testing.

Measuring Range

| Test Name | Measuring Range | Chemical Method |
|------------------------|-----------------------------------------------|---------------------------|
| Alkalinity-m T | 5 - 200 mg/L CaCO ₃ | Acid / Indicator |
| Aluminium T | 0.01 - 0.3 mg/L Al | Eriochrom Cyanine R |
| Ammonia T | 0.02 - 1 mg/L N | Indophenole Blue |
| Bromine T | 0.05 - 13 mg/L Br ₂ | DPD |
| Chlorine HR T | 0.1 - 10 mg/L Cl ₂ ^{a)} | DPD |
| Chlorine T | 0.01 - 6.0 mg/L Cl ₂ ^{a)} | DPD |
| Copper T | 0.05 - 5 mg/L Cu ²⁺ | Biquinoline |
| CyA T | 10 - 160 mg/L CyA | Melamine |
| Hardness Calcium (B) T | 20 - 500 mg/L CaCO ₃ | Murexide |
| Hardness total HR T | 20 - 500 mg/L CaCO ₃ ^{b)} | Metallphthaleine |
| Iron T | 0.02 - 1 mg/L Fe | Ferrozine / Thioglycolate |
| Phosphate LR T | 0.02 - 1.3 mg/L P | Phosphomolybdenum Blue |
| pH-value HR T | 8.0 - 9.6 pH | Thymol Blue |
| 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 580 nm $\Delta\lambda = 5$ nm 610 nm $\Delta\lambda = 6$ nm 660 nm $\Delta\lambda = 5$ nm |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| | |
|----------------------------|---------------------------------------------------------------------------------|
| Wavelength Accuracy | ± 1 |
| Photometric Range | -2500 - 2500 mAbs |
| Display | backlit LCD (on keypress) |
| Interfaces | Infrared |
| Operation | Foil keypad |
| Calibration | factory calibration and user calibration. Reset to factory calibration possible |
| Internal Storage | internal ring memory for 16 data sets |
| Battery Life Time | approx. 17 hours |
| Clock | Real Time Clock and Date |
| Portability | Portable |
| Compliance | CE |
| Dimensions | 6.1 x 2.95 x 1.38" |

Delivery Scope

- 4 micro batteries (AAA)
- 6 round cuvettes (glass) with lid
- Sealing rings
- 6 Stirring rod
- Brush
- Syringe (10 ml)
- Instruction manual
- Quick Start Guide
- Certificate (COC)
- Warranty information

| Title | Part Number |
|---------------------------------------------------------------------------------------------------|-------------|
| Water sampler with bottle 250 mL and lid, AF 631 | 170500 |
| Micro batteries (AAA), set of 4 | 1950026 |
| Multy cuvette-2, set of 12 | 197600 |
| Round cuvette 24 mm ø, set of 12 | 197620 |
| Sealing ring for round vials 24 mm ø, set of 12 | 197626 |
| Round cuvette 24 mm ø, set of 5 | 197629 |
| Cleaning cloth | 197635 |
| Round cuvette 16 mm ø, set of 10 | 197665 |
| Adapter for round cuvettes 16 mm ø | 19802190 |
| Mixing cylinder, 25 ml | 19802650 |
| Verification Standard Kit MD 100 / 200 | 215670 |
| 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 µm, 2 syringes 20 ml | 366150 |
| 250 mL bottle, AF 631 | 375072 |
| Brush, 11 cm length | 380230 |
| Measuring beaker, 100ml | 384801 |
| Cuvette stand for 6 round cuvettes Ø 24 mm | 418951 |
| Cuvette stand for 10 round cuvettes Ø 16 mm | 418957 |
| Plastic funnel with handle (white) | 471007 |
| ValidCheck Chlorine 1,5 mg/l | 48105510 |
| Additionally for each method | 999855 |

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