Lovibond® Water Testing

Tintometer® Group

MD 100 Chlorine, Bromine, pH, Cyanuric acid, Alkalinity-m, Calcium hardness, tablet reagents (OTZ)

Precise water control with proven and compact measuring system

- High-precision optics
- High accuracy and reproducibility through precision interference filter (5 nm)
- Industry specific parameter combinations available

Part Number: 278090

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. You always measure in the spectral peak.

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 Warranty

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 100 Chlorine, Bromine, pH, Cyanuric acid, Alkalinity-m, Calcium hardness, tablet reagents (OTZ)

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
Bromine T	0.05 - 13 mg/L Br_2	DPD
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
Hardness Calcium (B) T	20 - 500 mg/L $CaCO_3$	Murexide
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 Δλ = 5 nm 530 nm Δλ = 5 nm 560 nm Δλ = 5 nm 580 nm Δλ = 5 nm 610 nm Δλ = 6 nm 660 nm Δλ = 5 nm
Wavelength Accuracy	± 1
Photometric Range	-2500 - 2500 mAbs
Photometric Accuracy	3 % FS (T = 20 °C – 25 °C)
Suitable Vials	Round Cuvettes 24 mm
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 micro batteries (AAA)
Battery Life Time	approx. 17 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	155 x 75 x 35 mm

Delivery Scope

- Instrument in plastic case
- 100 tablet reagents DPD No.1
- 100 tablet reagents DPD No.3 Evo
- 100 tablet reagents Phenol Red Photometer
- 100 tablet reagents CyA-Test
- 100 tablet reagents Alka-M Photometer
- 100 tablet reagents Calcio-H No.1
- 100 tablet reagents Calcio-H No.2
- 4 micro batteries (AAA)
- 3 round cuvettes (glass) with lid
- Sealing rings
- Stirring rod
- Brush
- Syringe (5 ml)
- Instruction manual
- Quick Start Guide
- Certificate (COC)
- Warranty information

Accessories

Title	Part Number
Water sampler, AF 631	170500
Micro batteries (AAA), set of 4	1950026
Multy cuvette-2, set of 12	197600
Round cuvette 24 mm, set of 12	197620
Sealing ring for round vials 24 mm, set of 12	197626
Round cuvette 24 mm, set of 5	197629
Cleaning cloth	197635
Round cuvette 16 mm, set of 10	197665
Adapter for round cuvettes 16 mm	19802190
Mixing cylinder, 25 ml	19802650
Fixed price service package for MD100/MD110/MD200	19802701
Service plan - 3 years for MD100/MD110/MD200	19802801
Infrared data transmission modul IRiM	214050
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 µm, 2 syringes 20 ml	366150
500 ml bottle, AF 631	375069
Brush, 11 cm length	380230
Measuring beaker, 100 ml	384801
Cuvette stand for 6 round cuvettes Ø 24 mm	418951
Cuvette stand for 10 round cuvettes Ø 16 mm	418957

Title	Part Number
Plastic funnel with handle (white)	471007
ValidCheck Chlorine 1,5 mg/l	48105510
Factory calibration certificate ISO 9001 for MD100/MD110/MD200	999750
Additionally for each method	999855