

Lovibond® Water Testing Tintometer® Group



MD 100 Iron, powder reagents

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: 276056

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

Chemical Industry | Food and Beverage Industry | Industries Others | Marine Industry | Municipalities | NGO | Oil and Gas | Pharmaceutical Industry | Power and Energy

Application

Boiler Water | Cooling Water | Drinking Water Treatment | Galvanization | Pool Water Treatment | Raw Water Treatment | Wastewater Treatment

MD 100 Iron, powder reagents

The MD 100 is a single parameter colorimeter for water quality analysis. The rugged design makes this instrument completely portable and ideal for field use.

Iron is a common test in a variety of industries and application. This instrument is pre-programmed with three testing ranges. Choose between using Lovibond® Tablet reagents or VARIO Powder Pack Reagents, depending on the range selected.

Measuring Range

| Test Name | Measuring Range | Chemical Method |
|-----------|--------------------------------|---------------------|
| Iron PP | 0.02 - 3 mg/l Fe ⁹³ | 1,10-Phenanthroline |

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 |
| Photometric Accuracy | 3 % FS (T = 20 °C – 25 °C) |
| Operation | Foil keypad |
| Display | backlit LCD (on keypress) |
| Suitable Vials | Round Cuvettes 24 mm |
| Calibration | factory calibration and user calibration. Reset to factory calibration possible |
| Interfaces | Infrared |
| Internal Storage | internal ring memory for 16 data sets |
| Power Supply | 4 micro batteries (AAA) |
| Battery Life Time | approx. 17 hours |
| Auto – OFF | Yes |
| Clock | Real Time Clock and Date |
| Portability | Portable |
| Environmental Conditions | Temperature: 5 - 40 °C rel. humidity: 30 - 90 % (non condensing) |
| Compliance | CE |
| Protection Class | IP 68 |
| Dimensions | 155 x 75 x 35 mm |
| Weight | 260 g |

Delivery Scope

- Instrument in plastic case
- VARIO Ferro Powder Packs
- 4 micro batteries (AAA)
- 3 round cuvettes (glass) with lid
- Sealing rings
- Stirring rod
- Brush
- 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 |
| Infrared data transmission modul IRiM | 214050 |
| 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 |
| 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 |
| Plastic funnel with handle (white) | 471007 |
| Basic price for calibration certificate for each unit | 999845 |
| Additionally for each method | 999855 |

Tintometer GmbH

Lovibond® Water Testing
Schleefstraße 8-12
44287 Dortmund
Tel.: +49 (0)231/94510-0
Fax: +49 (0)231/94510-30
sales@lovibond.com
www.lovibond.com
Germany

The Tintometer Limited

Lovibond House
Sun Rise Way
Amesbury, SP4 7GR
Tel.: +44 (0)1980 664800
Fax: +44 (0)1980 625412
sales@lovibond.uk
www.lovibond.com
UK

Tintometer China

Room 1001, China Life Tower
16 Chaoyangmenwai Avenue,
Beijing, 100020
Tel.: +86 10 85251111 App. 330
Fax: +86 10 85251001
chinaoffice@tintometer.com
www.lovibond.com
China

Tintometer South East Asia

Unit B-3-12, BBT One Boulevard,
Lebuh Nilam 2, Bandar Bukit Tinggi,
Klang, 41200, Selangor D.E
Tel.: +60 (0)3 3325 2285/6
Fax: +60 (0)3 3325 2287
lovibond.asia@tintometer.com
www.lovibond.com
Malaysia

Tintometer Brazil

Caixa Postal: 271
CEP: 13201-970
Jundiaí – SP
Tel.: +55 (11) 3230-6410
sales@tintometer.com.br
www.lovibond.com.br
Brazil

Tintometer Inc.

6456 Parkland Drive
Sarasota, FL 34243
Tel: 941.756.6410
Fax: 941.727.9654
sales@lovibond.us
www.lovibond.com
USA

Tintometer India Pvt. Ltd.

Door No: 7-2-C-14, 2nd, 3rd & 4th Floor
Sanathnagar Industrial Estate,
Hyderabad, 500018
Telangana
Tel: +91 (0) 40 23883300
Toll Free: 1 800 599 3891/ 3892
indiaoffice@tintometer.com
www.lovibondwater.in
India

Tintometer Spain

Postbox: 24047
08080 Barcelona
Tel.: +34 661 606 770
sales@tintometer.es
www.lovibond.com
Spain

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