

Lovibond® Water Testing Tintometer® Group



MD 100 Boiler Water

Precise water control with proven and compact measuring system



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.

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

Part Number: 276230

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 | Oil and Gas | Pharmaceutical Industry | Power and Energy

Application

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

MD 100 Boiler Water

Most faults in steam production plants occur as a result of deficient monitoring and control of the boiler water. This includes, in particular, the formation of scale, corrosion and local overheating. Therefore, a regular treatment and testing protocol of the boiler water is critical. By using the MD 100 Boiler Water colorimeter system, you have an overview of the key parameters of your boiler water and can perform purposeful water treatment at all times.

Measuring Range

Test Name	Measuring Range	Chemical Method
Aluminium PP	0.01 - 0.25 mg/l Al	Eriochrom Cyanine R
Chloride L (A)	0.5 - 20 mg/l Cl ⁻	Mercury Thiocyanate / Iron Nitrate
Copper T	0.05 - 5 mg/l Cu ²⁺	Biquinoline
DEHA PP	0.02 - 0.5 mg/l DEHA	PPST
Hydrazine P	0.05 - 0.5 mg/l N ₂ H ₄	Dimethylaminobenzaldehyde
Iron LR L (A)	0.03 - 2 mg/l Fe	Ferrozine / Thioglycolate
Oxygen dissolved C	10 - 800 µg/l O ₂ ^o	Rhodazine D TM
Phosphate HR L	5 - 80 mg/l PO ₄	Vanadomolybdate
Polyacrylate L	1 - 30 mg/l Polyacryl	Turbidity
Silicate HR PP	1 - 90 mg/l SiO ₂	Silicomolybdate

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)
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
- Adapter for ø 16 mm cuvettes
- Adapter for ø 13 mm cuvettes
- 4 micro batteries (AAA)
- 3 round cuvettes (glass) with lid
- 3 round cuvettes ø 16 mm (glass) with lid
- Sealing rings
- Stirring rod
- Brush
- Syringe (20 ml)
- Measuring Beaker (100 ml)
- Plastic centrifuge tubes
- Instruction manual
- Quick Start Guide
- Certificate (COC)
- Warranty information

Accessories

Title	Part Number
Water sampler, AF 631	170500
Adapter (13 mm) MultiDirect for Vacu-vial	192075
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
Adapter for round cuvettes 13 mm	19802192
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
Measuring spoon, 1 g	384930
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
Stirring rod and spoon	56A006601
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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