

Lovibond® Water Testing Tintometer® Group



MD 200 Chlorine, pH, Cyanuric acid, Acid capacity KS4.3, tablet reagents (OTZ)

Precise results using high-quality interference filters



- Scroll memory
- Automatic switch-off
- Real-Time-Clock and date
- Calibration mode indicator

Part Number: 2860512

Versatile use

The MD 200 photometer can be used in almost all areas of water analysis.

Precise and low maintenance

The high-precision optics, which in addition to long-term stable LEDs as light sources, also offer high-quality interference filters, ensure precise and reproducible measurement results. In addition, these components make the photometer low-maintenance.

User friendly

The devices impress with their ease of use, ergonomic design and compact dimensions, which makes handling the devices easy and safe.

Reagents

Use long-term stable Lovibond® reagent tablets (5-10 years guaranteed minimum durability) or Lovibond® liquid reagents.

Industry

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

Application

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

MD 200 Chlorine, pH, Cyanuric acid, Acid capacity KS4.3, tablet reagents (OTZ)

Versatile, compact and: The benchtop photometer MD 200 combines high-quality interference filters with long-term stable LEDs as light sources in a high-precision optic. The result: precise measurement results at all times - no matter where you use it.

Measuring Range

Test Name	Measuring Range	Chemical Method
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
K _{S4,3} T	0.1 - 4 mmol/L K _{S4,3}	Acid / Indicator
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 $\Delta\lambda = 5$ nm 530 nm $\Delta\lambda = 5$ nm 560 nm $\Delta\lambda = 5$ nm 610 nm $\Delta\lambda = 6$ nm
Wavelength Accuracy	± 1 nm
Photometric Range	-2500 - 2500 mAbs
Photometric Accuracy	3 % FS (T = 20 °C – 25 °C)
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 batteries (AA)
Battery Life Time	approx. 53 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	110 x 55 x 190 mm
Weight	455 g

Delivery Scope

- Instrument in plastic case with 4 batteries (AA)
- 3 Round vials with lids
- Sealing rings
- 1 Stirring rod
- 1 Brush
- 1 Syringe (5 ml)
- 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
- Instruction manual
- Manual of Methods
- Certificate (COC)
- Warranty information

Accessories

Title	Part Number
Water sampler with bottle 250 mL and lid, AF 631	170500
Batteries (AA), set of 4	1950025
Round cuvette 24 mm \varnothing , set of 12	197620
Sealing ring for round vials 24 mm \varnothing , set of 12	197626
Round cuvette 24 mm \varnothing , set of 5	197629
Cleaning cloth	197635
Round cuvette 16 mm \varnothing , set of 10	197665
Adapter for round cuvettes 16 mm \varnothing	19802190
Battery lid	19802241
Fixed price service package for MD100/MD110/MD200	19802701
Service plan - 3 years for MD100/MD110/MD200	19802801
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 μ m, 2 syringes 20 ml	366150
250 mL bottle, AF 631	375069
Brush, 11 cm length	380230
Measuring beaker, 100 ml	384801
Cuvette stand for 6 round cuvettes \varnothing 24 mm	418951
Cuvette stand for 10 round cuvettes \varnothing 16 mm	418957
ValidCheck Chlorine 1,5 mg/l	48105510
Factory calibration certificate ISO 9001 for MD100/MD110/MD200	999750
Additionally for each method	999855

Tintometer GmbH

Lovibond® Water Testing
Schleefstraße 8-12
44287 Dortmund
Tel.: +49 (0)231/94510-0
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

9F, SOHO II C.
No.9 Guanghualu,
Chaoyang District,
Beijing, 100020
Customer Care China Tel.: 4009021628
Tel.: +86 10 85251111 Ext. 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@lovibond.us
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.us
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@lovibond.in
www.lovibondwater.in
India

Tintometer Spain

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