Lovibond® Water Testing

Tintometer® Group

MD150 Chlorine, Bromine, pH, Cyanuric Acid, Alkalinity-m, Calcium Hardness

Your daily companion for water analysis



- Wireless (NFC) and wired (USB-C) data transfer options
- Free Software and App for easy data management
- Intuitive user interface with easy-use icons and animations
- Exceptional durability to withstand demanding conditions

Part Number: 282150

The MD150 has several key features that make it a favourite among users.

– **Multiparameter combinations**

The MD150 provides essential parameters for pool water monitoring and disinfection control, including Chlorine, Bromine, Ozone, Chlorine Dioxide, pH, Cyanuric Acid, Alkalinity, and Calcium Hardness.

– **Factory programmed methods**

The MD150 comes with pre-programmed methods for pool and various other applications, ready to use out of the box.

– **Flexibility through a personalised favourites list**

Customise your methods overview to suit your needs: save frequently used tests to your personal favourites list and access the methods relevant to you quickly and easily.

– **Built for durability**

The MD150 features a durable design with rubber-protected sides ensuring reliability even in demanding environments. With its IP67 rating, the instrument offers full protection against dust and water immersion.

– **Ergonomic design**

The MD150 is a compact, handheld instrument ideal for the use of the poolside, in the fi eld, or in the lab. Its compact size and side protections ensure a fi rm grip, while rubber feet prevent slipping, enabling for single-handed operation.

– **Quick and accurate results**

The innovative optical system of the MD150 provides exceptional accuracy and fast results, delivering precise measurements in record time.

– **One-Time-Zero function**

Save operation time with the One-Time-Zero function, which remains valid for 8 hours unless the instrument is turned off

– **Data transfer – NFC / USB-C**

Easily transfer data wirelessly via NFC to the AquaLX® app or via USB-C cable to Lovibond® Data Expert. Data can be exported in CSV format for use in programs like Excel.

– **GLP (Good Laboratory Practice) compliance**

The MD150 automatically records and saves a protocol for every change, ensuring data quality and integrity by tracking any adjustments that could impact measurement results.

– **Automatic data storage**

The MD150 automatically stores the last 100 readings and protocols with a time/date stamp and retains the data even during battery changes.

– **Keep your instrument up to date**

Easily update the firmware and methods in seconds using Lovibond® Data Expert. Updates are available on the instrument's webpage.

– **User defined method**

With the free of charge Lovibond® Data Expert, you can create custom methods.

Industry

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

Application

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

MD150 Chlorine, Bromine, pH, Cyanuric Acid, Alkalinity-m, Calcium Hardness

The MD150, building on the legacy of the proven MD100 photometer, offers even more high-quality features and ease of use. Whether you're monitoring pool water or managing other water treatment needs, the MD150 provides versatile multiparameter combinations. With enhanced high-precision optics, the MD150 delivers unmatched accuracy and efficiency, making it the ideal solution for various water testing needs.

Measuring Range

Test Name	Measuring Range	Chemical Method
Alkalinity-m T	5 - 300 mg/L $CaCO_3$	Acid / Indicator
Bromine T	0.05 - 13.5 mg/L Br_2	DPD
Chlorine HR 2 PP	0.1 - 10 mg/L Cl_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 PP	0.02 - 2 mg/L Cl_2 [a)]	DPD
Chlorine T	0.02 - 6.0 mg/L Cl_2 [a)]	DPD
CyA HR T	10 - 200 mg/L CyA	Melamine
Hardness Calcium (B) T	5 - 500 mg/L $CaCO_3$	Murexide
$K_{S4.3}$ 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	LED, spectrometer sensor, interference filter (only MD50 selected variants)
Light Source	LED
Wavelength	Variant specific (415, 445, 480, 515, 530, 555, 590, 630, 680)
Photometric Range	0 - 3 Abs
Photometric Accuracy	3 % FS (T = 20 °C – 25 °C)
Suitable Vials	Round Cuvettes 13 mm Round Cuvettes 16 mm Round Cuvettes 24 mm
Display	Backlit LCD
Interfaces	USB-C NFC (Near Field Communication)
Data Transfer Format	.csv
Operation	Foil keypad
Programmability	yes with Lovibond Data Expert software
Calibration	Factory and user adjustment - return to factory adjustment possible at any time
Updates	Firmware and methods update
Internal Storage	Internal ring memory for 100 data records
Battery Life Time	approx. 5000 measurements (without backlight)
Portability	Portable
Degree of Pollution	2
Maximum altitude above sea level	3500 m
Compliance	CE
Languages Full User Manual	English, German, Spanish, French, Portuguese, Italian, Dutch, Turkish, Chinese
Dimensions	6.1 x 2.99 x 1.77"

Delivery Scope

- 1 Instrument in Carrying case
- 100 tablet reagents DPD No.1
- 100 tablet reagents DPD No.3 Evo
- 100 tablet reagents Phenol Red Photometer
- 100 tablet reagents CyA HR-Test
- 100 tablet reagents Alka-M Photometer
- 50 tablet reagents Calcio-H No.1
- 50 tablet reagents Calcio-H No.2
- 2 batteries (AA)
- 3 round cuvettes (glass) with lid and Sealing rings
- 1 Screwdriver
- 3 Stirring rods
- 1 Syringe 10 mL
- 1 Cleaning brush
- 1 USB-C to USB-A cable
- 1 Instruction manual
- 1 Certificate (COC)
- 1 Warranty information

Title	Part Number
Water Sampler & 250 mL Bottle	170500
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
USB-C cable 1 m, USB-C to A	19820-081
Verification Standard Kit MD50/MD150	215700
Reference Standard Kit Chlorine - 0.2 and 1.0 mg/l (MD150)	275630
Reference Standard Kit Chlorine - 0.5 and 2.0 mg/l (MD150)	275631
Reference Standard Kit Chlorine - 1.0 and 4.0 mg/l (MD150)	275632
Reference Standard Kit pH - 7.45 (MD 150)	275635
Stirring rod, 13 cm length	364100
Stirring rod, 10 cm length	364109
Box with 10 plastic stirring rods	364120
Box with 10 plastic stirring rods	364130
250 mL bottle with cap	375072
Brush, 11 cm length	380230
Measuring beaker, 100ml	384801
Cuvette stand for 6 round cuvettes Ø 24 mm	418951
Plastic funnel with handle (white)	471007
ValidCheck Chlorine 1,5 mg/l	48105510

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