

Lovibond® Water Testing Tintometer® Group



MD 110 COD

Photometer with **Bluetooth®** Technology



- **Bluetooth®** -Interface
- Scroll Memory
- Automatic switch-off
- Calibration mode indicator

Part Number: 2961202

The MD 110 has several key features that make it a favorite among users.

Waterproof Design

The IP 68 design of this instrument ensures that the MD 110 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 110 utilizes LEDs and interference filters which quickly gives you results that you can be confident in.

User Calibration Mode

A one-point calibration is possible. Additionally, all MD 110 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 110 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 110 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 110 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

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Bluetooth® function

All MD 110 photometers have a **Bluetooth®** function. To make the most of it, Tintometer offers an app for mobile devices as well as a PC software with dongle. The measurement results are transmitted to external devices via the **Bluetooth®** interface for quick evaluation and processing so that all data can be evaluated and assigned directly on site.

App AquaLX®

The free app AquaLX® is ideally designed for use in on-site measurements. Compatible with IOS®- and Android®-based smartphones and tablets, it enables uncomplicated data transmission. It maps all measured values as an illustrative graphic with minimum and maximum limits and supports the export of the data as an Excel®-compatible CSV file.

PC Software

The PC software makes it possible to import data directly from the photometer to the Windows-based PC. As a stationary solution, it facilitates the transfer of data through a quickly established, permanently wireless connection. Further processing of the results can be done both in the software itself and by exporting the data to Excel or as a CSV file.

The set of software and **Bluetooth®** dongle is available as a separate accessory under item no. 2444480 available.

Delivery Scope

- Instrument in plastic case
- Adapter for ø 16 mm cuvettes
- 4 micro batteries (AAA)
- Syringe (1 ml)
- Syringe (2 ml)
- Instruction manual
- Quick Start Guide
- Certificate (COC)
- Warranty information

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	Bluetooth
Internal Storage	internal ring memory for 125 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

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Thermoreactor RD 125

Preparation for the photometrical determination

Part Number: 2418940



Three Temperature Ranges

The reactor can operate optionally with 100°C, 120°C or 150°C – depending in each case on the sample to be prepared.

Three Different Reaction Times

Three different reaction times are available with 30, 60 and 120 minutes. Your advantage: Afterwards the unit switched itself off automatically.

Large Cuvette Shaft

Place up to 24 16-mm-round cuvettes in the RD 125.

Voltage Change Possible

The RD 125 can be used with various voltages: Choose 110 V and 220 V with the voltage selector on the back.

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Thermoreactor RD 125

Flexible thermoreactor for sample preparation of photometrical determination of COD, total chrome, total phosphate, total nitrogen and TOC. Digestion is possible with three temperature ranges and three pre-programmed reaction times.

Technical Data

Suitable Vials	Round Cuvettes 16 mm
Power Supply	230 V / 50-60 Hz or 115 V / 50-60 Hz
Auto – OFF	Yes
Beeper	max. 88 dB (piezo buzzer)
Suggestion Temperature	100 / 120 / 150 °C
Heating-up Rate	20 °C - 150 °C
Selected Time	30 / 60 / 120 / 120 / minutes and continuous operation
Environmental Conditions	10 – 40 °C max. 85 % rel. humidity
Compliance	CE
Dimensions	219 x 171 x 248 mm
Weight	3.9 kg

Accessories

Title	Part Number
Cuvette stand for 10 round cuvettes Ø 16 mm	418957
Pipette tips*, 1-5 ml (white) 100 pc.	419066
Pipette tips**, 0,1-1 ml (white), 1000 pc.	419073
Automatic pipette*, 1-5 ml	419076
Automatic pipette**, 0,1-1 ml	419077

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