

MD 110 Photometer

Photometer with **Bluetooth®** Technology



Highlights

- Scroll Memory
- Automatic switch-off
- Real-Time- Clock and date
- Calibration mode indicator
- backlit display
- Storage function
- One Time Zero (OTZ)
- Bluetooth®- Interface
- Waterproof*)

*) as defined in IP 68, 1 hour at 0,1 meter

Delivery Content

- Instrument in carrying case
- 4 micro batteries (AAA)
- 3 round vials (glass) with lids
- 1 stirring rod & 1 brush
- Tablet reagents and/or liquid reagents or VARIO Powder reagent
- Warranty information
- Certificate (Certificate of Compliance)
- Instruction Manual

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	Power Supply	4 micro batteries (AAA), capacity approx. 17 hours or approx. 5000 tests In continuous operation with the display lighting switched off	Weight	basic unit approx. 260 g
Wavelength Accuracy	± 1 nm	Auto - OFF	automatic switch-off	Environmental conditions	temperature: 5–40 °C rel. humidity: 30–90 % (non condensing)
Photometric Accuracy⁴⁾	3 % FS (T = 20 °C – 25 °C)	Display	backlit LCD (on keypress)	Approval	CE
Photometric Resolution	0.01 A	Storage	internal ring memory for 125 data sets		
		Interface	Bluetooth® interface for test data transfer		
		Additional feature	real time clock and date		
		Calibration	factory calibration and user calibration. Reset to factory calibration possible		
		Dimensions	155 x 75 x 35 mm (L x W x H)		

⁴⁾ tested with standard solutions

3in1		4in1		6in1	
Test	Code	Test	Code	Test	Code
MD 110 Chlorine, pH, Cyanuric Acid tablet reagents 0,01 - 6,0 mg/l Cl ₂ / 0,1 - 10 mg/l Cl ₂ * 6,5 - 8,4 pH / 0 - 160 mg/l cyanuric acid	29 80 102	MD 110 Chlorine, pH, Cyanuric Acid, Alkalinity-M (total) tablet reagents 0,01 - 6,0 mg/l Cl ₂ / 0,1 - 10 mg/l Cl ₂ * 6,5 - 8,4 pH / 0 - 160 mg/l cyanuric acid 5 - 200 mg/l CaCO ₃ (TA)	29 80 702	MD 110 Chlorine, Bromine, pH, Cyanursäure, Alkalinity-M (total), Calcium hardness tablet reagents 0,01 - 6,0 mg/l Cl ₂ / 0,1 - 10 mg/l Cl ₂ * 0,05 - 13 mg/l Br / 6,5 - 8,4 pH 0 - 160 mg/l cyanuric acid / 5 - 200 mg/l CaCO ₃ (TA) 0 - 500 mg/l CaCO ₃ (CaH)	29 80 902
MD 110 Chlorine, pH, Cyanuric Acid liquid reagent for chlorine and pH 0,02 - 4 mg/l Cl ₂ / 6,5 - 8,4 pH 0 - 160 mg/l cyanuric acid	29 80 152	MD 110 Chlorine, pH, Cyanuric Acid, Alkalinity-M (total) liquid reagent for chlorine and pH 0,02 - 4 mg/l Cl ₂ / 6,5 - 8,4 pH 0 - 160 mg/l cyanuric acid / 5 - 200 mg/l CaCO ₃ (TA)	29 80 752		

* Delivery without reagents for measuring range 0.1 - 10 mg/l Cl₂

➔ Please see pages 50 onwards for reagents (order codes)

Data Transfer

The photometer MD 110 has integrated Bluetooth® functionality. The app AqualX® is the ideal supplement to the Lovibond® photometer. Measurement results are transmitted via the Bluetooth® interface for fast evaluation or admini-

stration on smartphones or tablets. All data can be handled and allocated immediately, on-site. The app displays all results in a clear graphic with min. and max. values and supports the export of the data as an Excel® compatible CSV file.

For further information, please refer to www.lovibond.com/bluetooth

