



MD50 Photometer

new

Your daily
companion
for water
analysis.

smart
NFC
connection

The new Single Parameter-Photometer

– Your Ultimate Solution for Precision Testing
and Unmatched Ease!

The MD50 series offers a comprehensive range of single
parameter photometers that meet the most diverse needs
of water treatment.

Whether you're monitoring chlorine, chlorine high range, chlorine dioxide, ozone,
monochloramine, urea, suspended solids, hazen, molybdenum, copper, or phosphate
levels, there's an MD50 variant tailored to your requirements.



SINGLE-PARAMETER

Simplified Operation

Discover unparalleled ease with the MD50's single parameter design and language-free user interface. Icons and animations guide you effortlessly through the testing, while green and red backlighting instantly communicate results status and errors. Programming options for one user-defined method and easy instrument updateability empower you to customize your testing protocols effortlessly.

Enhanced Efficiency

Experience unmatched accuracy and speed of measurement with our innovative new optics, ensuring precise readings in record time. The one-time zero feature guarantees rapid sampling saving precious time in your daily operation. Plus, the ability to select your favorite reagent type – be it tablet, powder, or liquid – adds to the flexibility and convenience of the MD50 series.

Built to Last

Rugged industrial design, complete with rubber-protected sides, ensures the MD50 stands up to the toughest conditions. Experience unmatched durability and reliability, even in demanding environments with a waterproof IP67 rating. Powered by 2 AA batteries, the MD50 delivers exceptional battery life, enabling up to 5000 measurements per battery usage for an uninterrupted testing session.

Water testing Applications for the MD50 series span a wide range, including Boiler Water, Cooling Water, Disinfection Control, Drinking Water Treatment, Pool Water Control, Pool Water Treatment, Raw Water Treatment, and Wastewater Treatment. No matter the application, Lovibond® provides versatile reagents in tablet, powder, or liquid form, ensuring you have the best solution from a single source.

Elevate your testing experience with the MD50 Single Parameter Photometer – where simplicity meets precision, and durability reigns supreme.



smart
NFC
connection



AquaLX® App



Download on the
App Store



GET IT ON
Google Play

Instant Data Management

Store up to 100 sets of data, ensuring that all records meet GLP standards for integrity and reliability. Keep your data organized with easy transfer options via NFC using the Lovibond® AquaLX® App or choose a wired data transfer through USB-C using the Lovibond® Data Expert Software. Programming options for one user-defined method and easy instrument updateability empower you to customize your testing protocols effortlessly



Waterproof USB-C connection
for data export and updates

Standards for photometry

Accurate analysis results are essential not only at the point where water enters the public supply but also throughout various stages in industrial processes and laboratory settings. Adhering to standards, norms, and quality assurance specifications is crucial for achieving precise water analysis. This level of accuracy is attainable only with the right equipment and optimal technical quality. Regular checks using reference, verification, and validation standards are necessary to ensure that both the chosen methods and the measuring devices consistently produce reliable results.



Reference Standard Kit Chlorine*
0.2 and 1.0 mg/L Code: 275620
0.5 and 2.0 mg/L Code: 275621
1.0 and 4.0 mg/L Code: 275622

Verification Standard Kit**
Code: 215700

* for tablet method only
** not for MD50 chlorine



Delivery content – ready to use

- MD50
- 2 x AA Batteries
- Screwdriver
- 3 x Stirring rods
- 3 x 24 mm Vials with lid
- Syringe
- Cleaning brush
- USB-C to USB-A Cable
- Instruction manual
- Reagents (depends on variant) liquid, powder or tablets

VERSIONS

MD50 Variants	Method No.	Method	Measuring range	Type of reagents	Code (comp. Kit)
MD50 Chlorine	M100	Cl (free, total, comb.)	0,02–6 mg/L Cl ₂	Tablets	280100
	M101	Cl (free, total, comb.)	0,02–4 mg/L Cl ₂	Liquid	280102
	M103	Cl HR (free, total, comb.)	0,1–10 mg/L Cl ₂	Tablets	280105
	M110	Cl (free, total, comb.)	0,02–2 mg/L Cl ₂	Powder	
	M112	Cl HR (free, total, comb.)	0,1–10 mg/L Cl ₂	Powder	
MD50 Chlorine Dioxide	M120	ClO ₂ , ClF (ClO ₂), ClT (ClO ₂)	0,02–11 mg/L ClO ₂	Tablets	280120
	M122	ClO ₂ , ClF (ClO ₂)	0,04–3,8 mg/L ClO ₂	Powder	280125
MD50 Ozone	M300	O ₃ , O ₃ (ClT)	0,02–2 mg/L O ₃	Tablets	280130
	M301	O ₃ , O ₃ (ClT)	0,015–1,2 mg/L O ₃	Powder	280135
MD50 Chlorine HR (KI)	M105	Cl HR (KI)	5–200 mg/L Cl ₂	Tablets	280140
	M212	NaOCl	0,2–16 % NaOCl	Tablets	
MD50 Monochloramine	M63	MCA, NH ₃ (MCA)	0,02–4,5 mg/L Cl ₂	Powder + Liquid	280150
	M64	MCA, Cl ₂ (MCA)	0,02–4,5 mg/L Cl ₂	Powder + Liquid	
MD50 Urea	M390	UREA	0,1–2,5 mg/L CH ₄ N ₂ O	Liquid	280160
	M391	UREA	0,2–5 mg/L CH ₄ N ₂ O	Liquid	
MD50 Suspended Solids	M384	SuS	10–750 mg/L TSS	No reagents	280170
MD50 Hazen	M204	Hazen	10–500 Pt-Co Units	No reagents	280180
MD50 Molybdenum	M250	Mo	0,6–30 mg/L Mo	Tablets	280191
	M252	Mo HR	0,3–40 mg/L Mo	Powder	280195
MD50 Copper	M150	Cu (free, total, diff.)	0,05–5 mg/L Cu	Tablets	280200
	M152	Cu VLR	0,05–5 mg/L Cu	Powder	
	M153	Cu			
MD50 Phosphate	M320	PO ₄	0,05–4 mg/L PO ₄	Tablets	280210
	M323	PO ₄	0,06–2,5mg/L PO ₄	Powder	280215

Accessories

- 24 mm Round cuvette
Set with 5 Pc. (197629) or 12 Pc. (197620)
- Stirring rod Set 10 Pc. (364130)
- Measuring beaker (384801)
- Plastic funnel with handle, white (471007)
- Cuvette stand (418951)
- USB Cable (19820-081)
- Cleaning cloth (197635)
- Cleaning brush (380230)



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Photometer/MD50

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