

# Lovibond® Water Testing Tintometer® Group



## MD50 Hazen/A.P.H.A.

Precise water control with proven and compact measuring system



- High-precision optics to ensure accuracy and reproducibility
- Wired and wireless data transfer option
- Multiple single parameter variants for diverse applications

N. ordine: 280180

The MD50 has several key features that make it a favorite among users.

### **Robust Design**

The MD50 is built to last. Its rugged industrial design, complete with rubber-protected sides and an IP67 rating, ensures unmatched durability and reliability even in demanding environments.

### **Accurate, Reproducible Results**

The innovative optical system of the MD50 delivers exceptional accuracy and speed, ensuring precise readings in record time.

### **Factory Programmed Methods**

All MD50 instruments come with pre-programmed methods for different types of reagents. Simply select the test you need, prepare your sample, and test! To simplify test selection, you can choose the reagent type from the settings and display only your desired methods in the methods list.

### **User Calibration and User defined Method**

A one-point calibration is possible with the MD50. The instrument automatically saves the calibration protocol in the logs along with the calibration factor. All user-calibrated methods are displayed with a calibration icon on the screen. Can't find the method you need? The MD50 also allows you to program a user-defined method using PC software.

### **One-Time-Zero Function**

Save time by zeroing the instrument once for each sample. When testing a new sample, zero the instrument once and all subsequent tests of that sample do not require re-zeroing. You can also activate or deactivate the OTZ function for all methods in the settings.

### **Automatic Data Storage**

The MD50 automatically stores the last 100 readings and protocols with a time and date stamp. Results remain in storage even during a battery exchange.

### **Data Transfer**

The MD50 offers smooth and effortless data transfer. You can transfer data to the AquaLX® app via NFC or use a USB cable to transfer

data to PC software. Data can also be exported in CSV format for programs like Excel.

### **Ergonomic Design**

Whether you're using the MD50 in the field or in the lab, its design makes it easy to handle and view the display. In the field, the compact size and side protections ensure a firm grip during use. In the lab, rubber feet on the bottom of the housing eliminate the need for two-handed operation or chasing your instrument around the workbench.

### **GLP Compliance**

To ensure data quality and integrity, the MD50 creates and saves a protocol for each change made during operation.

### **2-year Warranty**

## Industria

Altre industrie | Comuni | Industria alimentare e delle bevande | Industria chimica | Industria farmaceutica | Industria olearia | Navigazione | ONG

## Applicazione

Trattamento acqua di scarico | Trattamento acqua non depurata | Trattamento acqua potabile

## MD50 Hazen/A.P.H.A.

The MD50 series offers a comprehensive range of single parameter photometers that meet the most diverse needs of water treatment. With its language-free user interface based on icons and animations, it offers unparalleled ease of use. The robust design of the MD50 ensures that the instrument can withstand the toughest conditions in the field.

## Campo di misura

Test Name	Campo di misura	Metodo chimico
Hazen 24	10 - 500 mg/L Pt	Metodo standard al platino-cobalto (APHA)

## Dati tecnici

<b>Ottica</b>	LED, sensore spettrometrico, filtro antidisturbo (solo varianti selezionate)
<b>Sorgente luminosa</b>	LED
<b>Lunghezza d'onda</b>	445
<b>Campo fotometrico</b>	0 - 3 Abs
<b>Cuvette adeguate</b>	Cuvette cilindriche 24 mm
<b>Display</b>	LCD retroilluminato
<b>Interfacce</b>	USB-C NFC (Near Field Communication)
<b>Formato di trasferimento dati</b>	.csv
<b>Funzionamento</b>	Tastiera a membrana
<b>Auto - OFF</b>	Sì
<b>Programmabilità</b>	Sì, con software per PC
<b>Messa a punto</b>	Regolazione di fabbrica e utente - possibilità di ritorno alla regolazione di fabbrica in qualsiasi momento
<b>Aggiornamenti</b>	Aggiornamento del firmware e dei metodi
<b>Memoria interna</b>	Memoria interna ad anello per 100 record di dati
<b>Durata delle batterie</b>	circa 5000 misure (senza retroilluminazione)
<b>Portabilità</b>	Portatile
<b>Grado di inquinamento</b>	2
<b>Altitudine massima sul livello del mare</b>	3500 m
<b>Condizioni ambientali</b>	5 - 50 °C con un'umidità relativa del 30 - 95 % (senza condensa)
<b>Classe di protezione</b>	IP 67
<b>Conformità</b>	CE
<b>Lingue del manuale operativo</b>	Tedesco, Inglese, Francese, Spagnolo, Italiano, Portoghese, Cinese, Olandese
<b>Dimensioni</b>	155 x 76 x 45 mm

## Fornitura

- 1 Instrument in Carrying case
- 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

Titolo	N. ordine
Campionatore con fiasco da 250 mL e coperchio, AF 631	170500
Cuvetta rotonda con coperchio Ø 24 mm, altezza 48 mm, 10 ml, set da 12	197620
Anello di tenuta per cuvette rotonde 24 mm, set da 12	197626
Cuvetta rotonda con coperchio Ø 24 mm, altezza 48 mm, 10 ml, set da 5	197629
Panno per la pulizia	197635
Cilindro di miscelazione con tappo accessorio necessario per la determinazione del molibdeno LR con MD 100 (276140)	19802650
Pacchetto di servizi a prezzo fisso per MD50	19802710
Piano di assistenza - 3 anni per MD50	19802810
Cavo USB-C 1 m, da USB-C a A	19820-081
Asta di agitazione in plastica, lunghezza 13 cm	364100
Asta di agitazione in plastica, lunghezza 10 cm	364109
Asta per agitazione in plastica, lunghezza 13 cm, set da 10	364120
Asta per agitazione in plastica, lunghezza 10 cm, set da 10	364130
Fiasco da 250 mL, AF 631	375072
Spazzola, lunghezza 11 cm	380230
Misurino, 100 ml	384801
Supporto per 6 cuvette rotonde Ø 24 mm	418951
Imbuto in plastica con manico	471007
Certificato di calibrazione di fabbrica ISO 9001 per il metodo Cl M100 (MD50)	999720
Certificato di calibrazione di fabbrica ISO 9001 per il metodo Cl M110 (MD50)	999721
Certificato di calibrazione di fabbrica ISO 9001 per il MD50	999756

---

**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  
Regno Unito

**Tintometer China**

Room 1001, China Life Tower  
16 Chaoyangmenwai Avenue,  
Beijing, 100020  
Customer Care China Tel.: 4009021628  
Tel.: +86 10 85251111 App. 330  
Fax: +86 10 85251001  
chinaoffice@tintometer.com  
www.lovibond.com  
Cina

**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  
Malesia

**Tintometer Brazil**

Caixa Postal: 271  
CEP: 13201-970  
Jundiaí – SP  
Tel.: +55 (11) 3230-6410  
sales@lovibond.us  
www.lovibond.com.br  
Brasile

**Tintometer Inc.**

6456 Parkland Drive  
Sarasota, FL 34243  
Tel: 941.756.6410  
Fax: 941.727.9654  
sales@lovibond.us  
www.lovibond.us  
Stati Uniti d'America

**Tintometer India Pvt. Ltd.**

Door No: 7-2-C-14, 2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup> 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  
Spagna