

Mobile multi-parameter photometer



**AUTOMATIC SELECTION
OF WAVE LENGTH**

EASY HANDLING

- Water analysis for variable measurands
- Illuminated display
- Memory
- More than 120 methods
- Infrared interface
- Water-proof housing



MD 600

mobile multi-parameter photometer with case

Description:

The state-of-the-art design of the MD 600 combines the mobility of a portable photometer with the specifications of a modern laboratory photometer. The device provides measurements of all relevant parameters of water analysis, from aluminum till zinc. The high accuracy of the Lovibond® reagents and the easy handling of the instrument ensure a reliable and rapid analysis of water samples. Tablet, powder or liquid reagents or cuvette tests (16 mm / 13 mm) are used depending on the application.

The MD 600 operates with 6 interference filters and long-term stable LEDs as light source without any moving parts.

The illuminated display allows comfortable reading of measuring values even in poor light conditions. Up to 1000 data sets can be stored in the memory of the MD 600 and the infrared interface together with IRiM (accessories) offer transmission of the data to a PC or printer (RS 232 / USB).

Application:

- Sewage, drinking water
- Swimming-pools
- Industrial process water
- Science & research
- State and private laboratories
- Mobile application

Accessories and spare parts:

MD-Z01: Round cuvettes set
with lid (12 pcs), height 48 mm, Ø 24 mm

MD-Z02: Round cuvettes set
with lid (10 pcs), height 90 mm, Ø 16 mm

MD-Z03: Cuvette rack
for 6 round cuvettes, Ø 24 mm, acrylic glass

MD-Z04: Cuvette rack
for 10 cuvettes (Ø 16 mm or □ 13.5 mm), acrylic glass

MD-Z05: Sealing ring
for cuvettes Ø 24 mm (12 pcs)

MD-Z06: Cleaning tissue for cuvettes

MD-Z07: Plastic funnel with handle

MD-Z08: Plastic stirring rod
13 cm length, (10 pcs)

MD-Z10: IRiM
Data transmission module

Specification:

Display:	Graphical display with background illumination
Interfaces:	IR interface for meas. data transfer ¹ , RJ45 socket for Internet updates ² ¹ optionally available: IRiM (Infrared interface module) ² optionally available: connection cable with integrated electronics (RS 232 / RJ-45-socket)
Optics:	LED - photo sensor - pair in transparent test chamber Wave length range: 430 nm IF $\Delta\lambda = 5$ nm 530 nm IF $\Delta\lambda = 5$ nm 560 nm IF $\Delta\lambda = 5$ nm 580 nm IF $\Delta\lambda = 5$ nm 610 nm IF $\Delta\lambda = 6$ nm 660 nm IF $\Delta\lambda = 5$ nm IF = interference filter
Wave length accuracy:	± 1 nm
Photometric accuracy*	2 % FS (T = 20 °C - 25 °C) * measured with standard solutions
Photometric resolution:	0.005 A
Handling:	Acid and solvent resistant, touch-sensitive membrane keyboard with acoustic feedback via integrated beeper.
Power supply:	4 batteries (Mignon AA/LR6); lifetime: approx. 26 h continuous operation or 3500 tests
Auto-Off:	20 min after last keypress, 30 s acoustic signal before turn-off
Dimensions:	approx. 210 x 95 x 45 mm (device) approx. 395 x 295 x 106 mm (case)
Weight (device):	approx. 450 g
Working conditions:	5 - 40 °C at max. 30 - 90 % RH (non condensing)
Languages:	German, English, French, Spanish, Italian, Portuguese, Polish, Indonesian; further languages via Internet update
Memory:	approx. 1000 data sets
Scope of supply:	• device in plastic case • round cuvettes 24 an 16 Ø, 3 of each type • 1 adapter each • plastic stirring rod 13 cm, brush 11 cm, screw driver • operation manual

Please order required reagents separately!

Reagents (selection):

MD-R01: Ammonium: AMMONIA No.1 + No.2 tablets, pack of 100 pcs. each
MD-R02: Chlorine (free): DPD No.1, tablets, 100 pcs.
MD-R03: Chlorine (total): DPD No.1 + No.3 tablets, pack of 100 pcs. each
MD-R04: Chromium (VI): Chromium Hexavalent Powder reagent, 100 pcs.
MD-R05: Iron (II + III, soluble): IRON LR, tablets, 100 pcs.
MD-R06: Copper: COPPER No.1 + No.2, tablets, pack of 100 pcs. each
MD-R07: Nickel: NICKEL No.1 + No.2, tablets, pack of 100 pcs. each
MD-R08: Nitrate: Vario-Set, 50 reaction cuvettes + powder reagent
MD-R09: Nitrite: Nitrite LR, tablets, 100 pcs.
MD-R10: Phosphate (ortho LR): PHOSPHATE No.1 LR + No.2 LR, tablets, pack of 100 pcs. each
MD-R11: Phosphate (ortho HR): PHOSPHATE No.1 HR + No.2 HR, tablets, pack of 100 pcs. each
MD-R12: Silicone dioxide: SILICA No.1 + No.2 + PR tablets, pack of 100 pcs. each
MD-R13: Zinc: COPPER/ZINK LR + EDTA, tablets, pack of 100 pcs. each
MD-R14: Hardness (total): HARDCHECK P tablets, 100 pcs.

other reagents upon request!