Lovibond® Water Testing

Tintometer® Group

PM 630

The Pool Manager: All pool parameters in one instrument



- Intuitive operation
- Back-lit display
- User guide in Germna, English, French, Spanish, Italien, Portugese, Polish & Indonesian
- Stores up to 1000 results

Part Number: 214070

Big Memory

The devices of the PM 600 series store up to 1000 data sets.

Modern technology

Infrared (PM 600 / PM 620) or **Bluetooth®** (PM 630) are available for data transmission.
The PM 600 and PM 620 devices can be connected to the PC via a module, and the PM 630 can be connected to the AquaLX® app via **Bluetooth®** .

All important parameters

From A(lkalinity-m) to H(hydrogen peroxide), the most important pool parameters are measured.
Optionally, 10 (PM 600) or 34 parameters (PM 620 / PM 630) are available.

Illuminated display

Even in the dark, you can always measure: All devices have a backlit display, giving you more flexibility.

Flexibility

Choose from different dosage forms - tablet reagent, liquid indicator or powder reagent:
with the PM 600 series you can use all types of reagents.

Industry

Pool Public | Pool Services

Application

Boiler Water | Cooling Water | Disinfection Control | Drinking Water Treatment | Food and Beverage | Galvanization | Others | Pool-Water Control | Raw Water Treatment | Waste Water Treatment

PM 630

The requirements of demanding pool operators are met at all times with the photometers PM 600 and PM 620. The devices are equipped with up to 34 test methods and a memory for up to 1000 data sets. The PM 630 offers a **Bluetooth®** interface instead of infrared data transmission. Intuitive operation and a backlit display make this series particularly user-friendly.

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.

Measuring Range

Test Name	Measuring Range	Chemical Method
Alkalinity-m HR T	5 - 500 mg/L $CaCO_3$	Acid / Indicator
Alkalinity-m T	5 - 200 mg/L $CaCO_3$	Acid / Indicator
Aluminium PP	0.01 - 0.25 mg/L Al	Eriochrom Cyanine R
Aluminium T	0.01 - 0.3 mg/L Al	Eriochrom Cyanine R
Ammonia T	0.02 - 1 mg/L N	Indophenole Blue
Bromine T	0.05 - 13 mg/L Br_2	DPD
Chlorine (free) and Monochloramine	0.02 - 4.50 mg/L Cl_2	Indophenole method
Chlorine dioxide T	0.02 - 11 mg/L ClO_2	DPD / Glycine
Chlorine HR PP	0.1 - 8 mg/L Cl_2 [a)]	DPD
Chlorine HR T	0.1 - 10 mg/L Cl_2 [a)]	DPD
Chlorine L	0.02 - 4.0 mg/L Cl_2 [a)]	DPD
Chlorine MR PP	0.02 - 3.5 mg/L Cl_2 [a)]	DPD
Chlorine PP	0.02 - 2 mg/L Cl_2 [a)]	DPD
Chlorine T	0.01 - 6.0 mg/L Cl_2 [a)]	DPD
Copper PP	0.05 - 5 mg/L Cu	Bicinchoninate
Copper T	0.05 - 5 mg/L Cu[a)]	Biquinoline
CyA HR T	10 - 200 mg/L CyA	Melamine
CyA T	10 - 160 mg/L CyA	Melamine
H_2O_2 HR L	40 - 500 mg/L H_2O_2	Titanium Tetrachloride / Acid
H_2O_2 T	0.03 - 3 mg/L H_2O_2	DPD / Catalyst
Hardness Ca and Mg L	0.05 - 4 mg/L $CaCO_3$	Calmagite
Hardness Calcium (B) T	20 - 500 mg/L $CaCO_3$	Murexide
Hardness total HR T	20 - 500 mg/L $CaCO_3$ [i)]	Metallphthaleine
Hardness total T	2 - 50 mg/L $CaCO_3$	Metallphthaleine
Hypochlorite T	0.2 - 16 % NaOCl	Potassium Iodide
Iron T	0.02 - 1 mg/L Fe	Ferrozine / Thioglycolate
$K_{S4.3}$ T	0.1 - 4 mmol/L $K_{S4.3}$	Acid / Indicator
Iodine T	0.05 - 3.6 mg/L I	DPD
Oxygen active T	0.1 - 10 mg/L O_2	DPD
Ozone T	0.02 - 2 mg/L O_3	DPD / Glycine
PHMB T	2 - 60 mg/L PHMB	Buffer / Indicator
Phosphate LR T	0.05 - 4 mg/L PO_4	Phosphomolybdenum Blue
pH-value HR T	8.0 - 9.6 pH	Thymol Blue
pH value L	6.5 - 8.4 pH	Phenol Red
pH-value LR T	5.2 - 6.8 pH	Bromocresolpurple
pH-value T	6.5 - 8.4 pH	Phenol Red
Sulphate PP	5 - 100 mg/L SO_4^{2-}	Bariumsulphate Turbidity
Sulphate T	5 - 100 mg/L SO_4^{2-}	Bariumsulphate Turbidity
Urea T	0.1 - 2.5 mg/L Urea	Indophenol / Urease

Technical Data

Optics	LEDs, interference filters (IF) and photo sensor in transparent sample chamber. Wavelength range: 530 nm IF Δλ = 5 nm 560 nm IF Δλ = 5 nm 610 nm IF Δλ = 6 nm IF = interference filter
Wavelength Accuracy	± 1 nm
Photometric Accuracy	2 % FS (T = 20 °C – 25 °C)
Suitable Vials	Multi vial 10 mm Round Cuvettes 16 mm Round Cuvettes 24 mm
Display	Graphic-display
Interfaces	Bluetooth
Operation	Acid and solvent resistant, touch-sensitive keypad with audible feedback via integrated beeper
Auto – OFF	Yes
Updates	Software updates via internet
Internal Storage	approx. 500 data sets
Power Supply	4 batteries (Mignon AA/LR6)
Battery Life Time	approx. 26 h
Beeper	existing
Portability	Benchtop
Environmental Conditions	5 – 40 °C at max. 30 – 90 % Conditions rel. humidity (non condensing)
Protection Class	IP 68
Compliance	CE
Languages User Interface	German, English, French, Italian, Spanish, Portuguese, Polish, Indonesian
Dimensions	95 x 45 x 210 mm
Weight	450 g

Delivery Scope

- In case
- 4 Batteries (AA)
- 3 Vials ø 24 mm
- Plastic beaker 100 ml
- Stirring rod
- Brush
- Syringe
- Reagents for Chlorine (free, combined, total)
- pH value
- Calcium Hardness
- Alkalinity-M
- Instruction manual
- Certificate (COC) and warranty information

Accessories

Title	Part Number
Water sampler with bottle 250 mL and lid, AF 631	170500
Batteries (AA), set of 4	1950025
Multy cuvette-3, set of 12	197605
Round cuvette 24 mm ø, set of 12	197620
Sealing ring for round vials 24 mm ø, set of 12	197626
Round cuvette 24 mm ø, set of 5	197629
Cleaning cloth	197635
Round cuvette 16 mm ø, set of 10	197665
Adapter for round cuvettes 16 mm ø	19802190
Fixed price service package for PM600/PM620/PM630	19802704
Service plan - 3 years for PM600/PM620/PM630	19802804
Update cable	214030
Update cable set with USB/R232 adapter	214031
Reference Standard Kit Chlorine - 0.2 and 1.0 mg/l (MD/PM 600 series)	215630
Reference Standard Kit Chlorine - 0.5 and 2.0 mg/l (MD/PM 600 series)	215635
Reference Standard Kit Chlorine - 1.0 and 4.0 mg/l (MD/PM 600 series)	215636
Reference Standard Kit pH - 7.45 (MD/PM 600 series)	215665
Verification Standard Kit PM Photometer	215680
Kit of BT data transfer software and Bluetooth Dongle	2444480
Stirring rod, 13 cm length	364100
Stirring rod, 10 cm length	364109
Stirring rod, 13 cm length, set of 10	364120
Stirring rod, 10 cm length, set of 10	364130
Plastic syringe, 5 ml	366120
250 mL bottle, AF 631	375069
Brush, 11 cm length	380230
Measuring beaker, 100 ml	384801
Cuvette stand for 6 round cuvettes Ø 24 mm	418951
Cuvette stand for 10 round cuvettes Ø 16 mm	418957
Plastic funnel with handle (white)	471007
ValidCheck Chlorine 1,5 mg/l	48105510
Factory calibration certificate ISO 9001 for PM600/PM620/ PM630	999751

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