

# Lovibond® Water Testing Tintometer® Group



## PM 630

The Pool Manager: All pool parameters in one instrument



- Intuitive operation
- Back-lit display
- User guide in German, English, French, Spanish, Italian, Portuguese, 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(alkalinity-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 <sub>3</sub>	Acid / Indicator
Alkalinity-m T	5 - 200 mg/L CaCO <sub>3</sub>	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 <sub>2</sub>	DPD
Chlorine (free) and Monochloramine	0.02 - 4.50 mg/L Cl <sub>2</sub>	Indophenole method
Chlorine dioxide T	0.02 - 11 mg/L ClO <sub>2</sub>	DPD / Glycine
Chlorine HR PP	0.1 - 8 mg/L Cl <sub>2</sub> <sup>a)</sup>	DPD
Chlorine HR T	0.1 - 10 mg/L Cl <sub>2</sub> <sup>a)</sup>	DPD
Chlorine L	0.02 - 4.0 mg/L Cl <sub>2</sub> <sup>a)</sup>	DPD
Chlorine MR PP	0.02 - 3.5 mg/L Cl <sub>2</sub> <sup>a)</sup>	DPD
Chlorine PP	0.02 - 2 mg/L Cl <sub>2</sub> <sup>a)</sup>	DPD
Chlorine T	0.01 - 6.0 mg/L Cl <sub>2</sub> <sup>a)</sup>	DPD
Copper PP	0.05 - 5 mg/L Cu	Bicinchoninate
Copper T	0.05 - 5 mg/L Cu <sup>a)</sup>	Biquinoline
CyA HR T	10 - 200 mg/L CyA	Melamine
CyA T	10 - 160 mg/L CyA	Melamine
H <sub>2</sub> O <sub>2</sub> HR L	40 - 500 mg/L H <sub>2</sub> O <sub>2</sub>	Titanium Tetrachloride / Acid
H <sub>2</sub> O <sub>2</sub> T	0.03 - 3 mg/L H <sub>2</sub> O <sub>2</sub>	DPD / Catalyst
Hardness Ca and Mg L	0.05 - 4 mg/L CaCO <sub>3</sub>	Calmagite
Hardness Calcium (B) T	20 - 500 mg/L CaCO <sub>3</sub>	Murexide
Hardness total HR T	20 - 500 mg/L CaCO <sub>3</sub> <sup>1)</sup>	Metallphthaleine
Hardness total T	2 - 50 mg/L CaCO <sub>3</sub>	Metallphthaleine
Hypochlorite T	0.2 - 16 % NaOCl	Potassium Iodide
Iron T	0.02 - 1 mg/L Fe	Ferrozine / Thioglycolate
K <sub>S4.3</sub> T	0.1 - 4 mmol/L K <sub>S4.3</sub>	Acid / Indicator
Iodine T	0.05 - 3.6 mg/L I	DPD
Oxygen active T	0.1 - 10 mg/L O <sub>2</sub>	DPD
Ozone T	0.02 - 2 mg/L O <sub>3</sub>	DPD / Glycine
PHMB T	2 - 60 mg/L PHMB	Buffer / Indicator
Phosphate LR T	0.05 - 4 mg/L PO <sub>4</sub>	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 <sub>4</sub> <sup>2-</sup>	Bariumsulphate Turbidity
Sulphate T	5 - 100 mg/L SO <sub>4</sub> <sup>2-</sup>	Bariumsulphate Turbidity
Urea T	0.1 - 2.5 mg/L Urea	Indophenol / Urease

## Technical Data

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

Title	Part Number
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

### 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  
UK

### Tintometer China

9F, SOHO II C.  
No.9 Guanghualu,  
Chaoyang District,  
Beijing, 100020  
Customer Care China Tel.: 4009021628  
Tel.: +86 10 85251111 Ext. 330  
Fax: +86 10 85251001  
chinaoffice@tintometer.com  
www.lovibond.com  
China

### 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  
Malaysia

### Tintometer Brazil

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

### Tintometer Inc.

6456 Parkland Drive  
Sarasota, FL 34243  
Tel: 941.756.6410  
Fax: 941.727.9654  
sales@lovibond.us  
www.lovibond.us  
USA

### 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  
Spain