

General description



The BWT Pearl Water Manager is a digital pool water tester measures pH value, temperature, conductivity, and redox potential in both classic chlorine and saltwater pools in real time. The pool buoy is controlled via the associated BWT Pearl Water Manager app, which incorporates local weather data into the chemical dosing recommendations.

All collected data is stored in the cloud securely. The Pearl Water Manager keeps in touch with the smartphone via Wi-Fi. The Bluetooth connection is used for initiating first connection between device and BWT Pearl Water Manager app. Several persons can be registered and logged on to the Pearl Water Manager (multi-user function). One charge of the lithium-ion battery lasts between 3-6 months. The Pearl Water Manager, the battery and the sensors are guaranteed for 2 years.

Design and function

The BWT Pearl Water Manager consists of an UV-resistant housing with 4 sensors in the lower part of the housing (perforated closure on the underside in magenta). These sensors consist of a temperature sensor, a pH probe, a redox probe and a conductivity probe (TDS). The sensors can be removed from the housing using the enclosed tool via a bayonet lock (twist-lock system). The sensors have different colors to facilitate allocation (pH blue / redox (ORP) yellow / conductivity (TDS) grey). On the upper part of the buoy (magenta cover on top) behind this cover is the ON/OFF button of the Pearl Water Manager, an LED indicator light, and the micro-USB charging port. The top cap is levered open with the included screwdriver. The BWT Pearl Water Manager is connected to the smartphone via Wi-Fi. The rest of the control or results can be accessed via the Pearl Water Manager app from the Apple App Store or Google Play Store. The app takes into account the current measurements in real time and gives the customer dosing recommendations if required. Local weather data are also considered in the process. The buoy can be shared with other people by means of a sharing function. One battery charge lasts for 3-6 months on average and a recharging of the battery can take between 6-12h (charger included).



Benefits

- Long battery life (no battery replacement necessary - calculated battery lifespan 300 years)
- Easy to exchange sensors with 2 years warranty
- Compatible with Android and iOS
- Dosing recommendations of pool chemicals
- Multi-user function – BWT Pearl Water Manager sharing for several persons
- Data transmission via Wi-Fi

Included in the box

- BWT Pearl Water Manager with screwed-in sensors (blue /yellow /grey)
- Sensor Exchange Tool (magenta)
- Screwdriver (white)
- Operating instructions / Legal information
- Charger
- QR Code for app registration / UUID

Download free app

iOS: <https://apps.apple.com/us/app/bwt-pearl-water-manager/id1574515620>

Android: <https://play.google.com/store/apps/details?id=com.bwt.pwm>

BWT Pearl Water Manager

Digital Pool water Analyzer

Data sheet
EN 07/2021

Sensors

Temperature range:

0-50°C Measuring range
Operating temperature: 5 - 45°C
Storage temperature: 5- 45°C
Target temperature: Pool 25 - 28°C, Whirlpool 35 - 37°C

pH sensor:

Measuring range pH 2 to 13, target range 7.0-7.6
Resolution 0.1; temperature compensated
5 to 45 °C
Plug-in screw connection IP 68

Redox ORP sensor:

Start of measuring range 0 to 1500 mV; target range chlorine/bromine
650-750 mV; target range UV/ozone 550 - 650 mV
Plug-in screw connection IP 68

Conductivity TDS sensor:

Conductivity 0 - 9000 ppm, target range 250ppm - 2000ppm
Standard salt values 0-9g/L, target range 2.5g/L - 5.5g/L
Low salt values 0-9g/L, target range 1g/L - 3g/L
Plug-in screw connection IP 68

Networks:

Wi-Fi 802.11 b/g/n
Bluetooth 4.X and higher
(micro) USB 2.0

system requirements:

iOS & Android

Power supply: 100 - 240 V ± 10 %, 50 - 60 Hz

Output voltage charger: 5V DC

Lithium-ion battery Input voltage: 3.7V DC

Operating temperature: 5 - 45 °C

Protection class: IP 68

Testing and marking: CE-conform

Dimensions BWT Pearl Water Manager (W x H x D): 150 x 110 x 60 mm

Weight (incl. packaging): approx. 1 kg

Follow the barcode if you need help:



Package Contents

BWT Pearl Water Manager with screwed-in sensors (blue /yellow /grey)
Sensor Exchange Tool (magenta)
Screwdriver (white)
Charger
Operating instructions
Legal information
QR Code for BWT Pearl Water Manager app registration / serial number

Additional functions:

Sample water view
Weather Forecast
Dosage recommendation pool chemistry
Water quality display
Continuous water measurement

Guarantee:

2 years on BWT Pearl Water Manager
2 years Sensors
2 years Battery