

# PoolLAB 2.0<sup>®</sup>

PHOTOMETER



Specifications and certificates



Spezifikationen und Zertifikate



Especificaciones y certificados



Spécifications et certificats



Specifiche e certificati





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Specifications and Certificates  
Spezifikationen und Zertifikate  
Especificaciones y certificados  
Spécifications et certificats  
Specifiche e certificati



FAQ

<https://poollab.org>

MSDS




















<https://msds.water-id.com>

Cloud

<https://labcom.cloud>

Developed in Germany  
Assembled in China

<b>LED</b>	460 nm (only chamber 2)   525 nm   590 nm   625 nm
	3 x AA (1.5 V, LR03)  <b>Do not use rechargeable batteries!</b>  <b>Keine wiederaufladbaren Batterien verwenden!</b>  <b>¡No utilice pilas recargables!</b>  <b>Ne pas utiliser de piles rechargeables !</b>  <b>Non utilizzare batterie ricaricabili!</b>
	300 s

	<p>5 – 45 °C</p>
	<ul style="list-style-type: none"> <li> IP67 dust- and waterproof (1 h   1,2 m)</li> <li> IP67 staub- und wasserdicht (1 h   1,2 m)</li> <li> IP67 resistente al polvo y al agua (1 h   1,2 m)</li> <li> IP67 étanche à la poussière et à l'eau (1 h   1,2 m)</li> <li> IP67 polvere e impermeabile (1 h   1,2 m)</li> </ul>
	<ul style="list-style-type: none"> <li> Max. 1200 measurements</li> <li> Max. 1200 Messungen</li> <li> Máx. 1200 medidas</li> <li> Max. 1200 mesures</li> <li> Max. 1200 misure</li> </ul>
	<ul style="list-style-type: none"> <li> Max. 50 sampling points</li> <li> Max. 50 Messquellen</li> <li> Máx. 50 puntos de muestreo</li> <li> Max. 50 points d'échantillonnage</li> <li> Max. 50 punti di campionamento</li> </ul>

Disposal instructions according to  
EU directive by the European Parliament and Council: 2012/19/EU  
EU directive by the European Parliament and Council: 2006/66/EC

#### **Environmental protection information**

For the manufacture of your device, raw materials had to be produced and processed. The product may there contain hazardous substances with a negative effect on the environment if the device is not disposed of properly.

#### **Disposal of the device inclusive batteries**

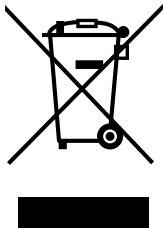
EU directive 2006/66/EC prohibits the disposal of batteries through normal household waste because batteries and accumulators may contain hazardous substance dangerous for the groundwater quality.

The device purchased by you contains replaceable AA-batteries (Alkaline).

We are obliged by law to notify you that the batteries contained in the device must be disposed of properly at special collection points or with the dealer where you have purchased the device. The symbol of the crossed-out waste bin indicates that you are asked to dispose of the device properly. To avoid that hazardous substances do enter the environment and to not contribute to a depletion of raw material resources, we kindly ask you to return the device by fully stamped mail (!) to the following address:

Water-i.d. GmbH  
Daimlerstrasse 20  
D-76344 Eggenstein-Leopoldshafen  
Germany

PoolLab 2.0® battery certifications and shipping conformity statements are available upon request ([support@water-id.com](mailto:support@water-id.com)).



### RoHS Declaration of Conformity

"Directive 2011/65/EU (the RoHS Directive) OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment" superseding "Directive 2002/95/EC (the RoHS Directive) OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 January 2003. The Certificate of Compliance includes Directive 2015/863 published in 2015 by the EU (often referred as RoHS 3) and Directive 2017/2102/EU published by the EU November 17, 2015.

Based on the information provided by our supply lines, and our certain knowledge pertaining to our own processes, products supplied by Water-i.d. GmbH are RoHS compliant for orders placed on or after the January 1, 2006. Products supplied on or after January 3, 2013 are also RoHS compliant according the Directive 2011/65/EU, Directive 2015/863 and Directive 2017/2102/EU from the moment the respected directive came into force.

The confirmation of compliance status by our supply lines is granted for products which do not contain any of the restricted substances referred to in Annex VI in the RoHS Directive 2011/65/EU & Directive 2015/863 with a higher than maximum concentration values tolerated by weight in homogeneous materials.

Water-i.d. GmbH has taken all reasonable steps to verify the supply line information regarding the absence of restricted substances.

### Safety Instructions / Consigne de Sécurité:

This equipment is not suitable for use in areas where children may be present.

*Cet équipement ne convient pas à une utilisation dans des lieux susceptibles d'accueillir des enfants.*

### CAUTION:

Battery abuse or mishandling can cause overheat, liquid leakage, or an explosion. To avoid possible injury, do the following:

- Install batteries according to the battery model and polarity information in the battery compartment.
- Do not disassemble, or service any battery.
- Do not crush or puncture the battery.
- Do not short-circuit the battery, or expose it to water or other liquids.

### ATTENTION:

*L'abus ou la mauvaise manipulation de la batterie peut provoquer une surchauffe, une fuite de liquide ou une explosion. Pour éviter tout risque de blessure, procédez comme suit:*

- *Installez les piles conformément au modèle de pile et aux informations sur la polarité figurant dans le compartiment à piles.*
- *Ne démontez pas et ne réparez pas les piles.*
- *N'écrasez pas et ne percez pas la batterie.*
- *Ne court-circuitez pas la batterie et ne l'exposez pas à l'eau ou à d'autres liquides.*

According to directive 2014/53/EC of the European Parliament and European Council of April 16, 2014.



The contracted manufacturer

Dongguan Welltime Technology Ltd.  
No.3, Dongyuan 3rd Road, Lianhu 2nd Industrial Zone  
CN-523702 Tangxia Town, Dongguan City  
Peoples Republic of China

herewith declares as follows:

The product "PoolLab 2.0<sup>SM</sup>" complies with the requirements of the following standards for:

- BT 4.2 (BLE)
- 802.11 b/g/n

### **Electro-Magnetic-Compatibility (EMC) standards for radio equipment and services:**

EN 301 489-1 V2.2.3  
EN 301 489-17 V3.2.4

#### **Radio standards:**

ETSI EN 300 328 V2.2.2

#### **Frequency:**

2.4000 - 2.4835 GHz

#### **Power:**

<100mW

#### **Safety standard:**

EN IEC 62368-1:2020+A11:2020

#### **SAR testing standard:**

EN 50566:2017  
EN 62479:2010  
EN 50663:2017  
IEC/IEEE 62209-1528:2020

#### **Frequency bands and power:**

Maximum radio frequency power transmitted in the frequency bands in which the radio equipment operates: The maximum power for all bands is less than the highest limit value specified in the related Harmonized Standard.

The frequency bands and transmitting power (radiated and/or conducted) nominal limits applicable to this radio equipment are as follows: Wi-Fi 2.4G: 20 dBm, Bluetooth 2.4G: 20 dBm.

Hereby, Water-i.d. GmbH, Daimlerstr. 20, D-76344 Eggenstein-Leopoldshafen, Germany, declares that this device is in compliance with essential requirements and other relevant provisions of Directive 2014/53/EU and the Radio Equipment Regulations 2017 (S.I. 2017/1206). A copy of the Declaration of conformity can be downloaded from [www.poolab.org](http://www.poolab.org).

The contracted manufacturer

Dongguan Welltime Technology Ltd.  
No.3, Dongyuan 3rd Road, Lianhu 2nd Industrial Zone  
CN-523702 Tangxia Town, Dongguan City  
Peoples Republic of China



herewith declares as follows:

### **Body worn operation**

The device complies with RF specifications when used at a distance of 0 mm from your body. Ensure that the device accessories, such as a device case and device holster, are not composed of metal components. Keep the device away from your body to meet the distance requirement.

### **Specific Absorption Rate (SAR) information:**

This device meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health. ISED RF Exposure Information and Statement the SAR limit of Canada (ISED) is 1.6 W/kg averaged over one gram of tissue. PoolLab 2.0® Photometer has also been tested against this SAR limit. This device was tested for typical body-worn operations with the back of the device kept 0 mm from the body. To maintain compliance with ISED RF exposure requirements, use accessories that maintain an 0 mm separation distance between the user's body and the back of the device. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with ISED RF exposure requirements, and should be avoided.

### **Informations sur le débit d'absorption spécifique (DAS):**

*Cette appareil répond aux exigences du gouvernement en matière d'exposition aux ondes radio. Les lignes directrices sont basées sur des normes élaborées par des organisations scientifiques indépendantes à travers une évaluation périodique et approfondie des études scientifiques. Les normes comprennent une marge de sécurité substantielle conçue pour assurer la sécurité de toutes les personnes, quel que soit leur âge ou leur état de santé. Information et déclaration d'ISDE sur l'exposition aux RF la limite DAS du Canada (ISDE) est de 1,6 W / kg en moyenne sur un gramme de tissu. La PoolLab 2.0® Photometer a également été testée par rapport à cette limite SAR. Cet appareil a été testé pour des opérations typiques portées sur le corps avec le dos de la appareil gardé à 0 mm du corps. Pour maintenir la conformité avec les exigences d'exposition RF d'ISDE, utilisez des accessoires qui maintiennent une distance de séparation de 0 mm entre le corps de l'utilisateur et l'arrière de la appareil. L'utilisation de clips de ceinture, d'étuis et d'accessoires similaires ne doit pas contenir de composants métalliques dans son assemblage. L'utilisation d'accessoires qui ne satisfait pas à ces exigences peut ne pas être conforme aux exigences d'exposition aux RF d'ISDE et doit être évitée.*

## FCC Part 15 Compliance Statement / IC Licence-Exempt RSS Compliance Statement

This device complies with Part 15 of the FCC Rules and with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:



- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

*Cet appareil est conforme à la partie 15 des règles de la FCC et aux normes RSS exemptées de licence d'Industrie Canada. Le fonctionnement est soumis aux deux conditions suivantes:*

- (1) Cet appareil ne doit pas causer d'interférences nuisibles, et*
- (2) cet appareil doit accepter toute interférence reçue, y compris les interférences pouvant entraîner un fonctionnement indés.*

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS 102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

*Cet appareil est conforme à l'exemption des limites d'évaluation courante dans la section 2.5 du cnr - 102 et conformité avec rss 102 de l'exposition aux rf, les utilisateurs peuvent obtenir des données canadiennes sur l'exposition aux champs rf et la conformité.*

This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment.

*Cet équipement est conforme aux limites d'exposition aux rayonnements du Canada établies pour un environnement non contrôlé.*

## FCC Part 15 Compliance Statement / IC Licence-Exempt RSS Compliance Statement

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter. Changes or modifications not expressly approved by Water-i.d. GmbH could void the user's authority to operate the equipment.

FCC ID: 2ALRR-POOLLABV2  
IC: 22610-POOLLABV2  
Model/HVIN: PoolLab 2.0

The SAR limit adopted by USA and Canada is 1.6 watts/kilogram (W/kg) averaged over one gram of tissue. The highest SAR value reported to the Federal Communications Commission (FCC) and the Industry Canada (IC) for this device type when it is properly worn on the body is 0.038 watts/kilogram (W/Kg).

The device complies with the RF specifications when the device is used near your distance of 0 mm from your body. Ensure that the device accessories such as a device case and a device holster are not composed of metal components. Keep your device 0 mm away from your body to meet the requirement earlier mentioned.

This device was tested for typical body-worn operations. To comply with RF exposure requirements, a minimum separation distance of 0 mm must be maintained between the user's body and the handset, including the antenna. Third-party belt-clips, holsters, and similar accessories used by this device should not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with RF exposure requirements and should be avoided. Use only the supplied or an approved antenna.

Tested standards:

- FCC part 15.247
- FCC part 2.1093
- ANSI/IEEE C95.1
- ANSI/IEEE C95.3
- FCC part 15B
- RSS-247
- ICES-003

We, Water-i.d. GmbH Germany, hereby declare that the product/model PoolLab 2.0® was certified for type certification pursuant to Article 2, paragraph 1, item 19.



R 219-239034

**Tests performed:**

· J 55032

**Type of radio wave, frequency and antenna power:**

· BT 4.2 (BLE)

· 802.11 b/g/n

Type certification number: 219-239034

We, Water-i.d. GmbH Germany, hereby certify our responsibility, that the product PoolLab 2.0® Photometer is tested to and conforms with the essential test suites included in the following standards, which are in force within the EEA:



Standards	Legislation Number
BS EN IEC 61326-1:2021 BS EN IEC 61326-2-1:2021 ETSI EN 301 489-1 V2.2.3: 2019 ETSI EN 301 489-17 V3.2.4: 2020	Regulations 2016 (S.I. 2016/1091)
BS EN IEC 62368-1:2020+A11:2020	Regulations 2016 (S.I. 2016/1101)
ETSI EN 300 328 V2.2.2: 2019	

And therefore complies with the essential requirements of the following directives:

Legislation Name	Legislation Number	Further identification
Electromagnetic Compatibility Regulations	Regulations 2016 (S.I. 2016/1091)	Electromagnetic Compatibility (EMC)
Electrical Equipment (Safety) Regulations	Regulations 2016 (S.I. 2016/1101)	Safety
Radio Equipment Regulations	Regulations 2017 (S.I. 2017/1206)	Radio Equipment
Restriction of the use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations	Regulations 2012 (S.I. 2012/3032)	RoHS

The technical documentation as required by the conformity assessment procedure is kept at the following address for a period ending at least 10 years after the last product has been manufactured at the disposal of the relevant national authorities of any Member State for inspection:

Water-i.d. GmbH (Germany)  
Daimlerstr. 20  
76344 Eggenstein  
Germany

The product is UKCA-marked in:





