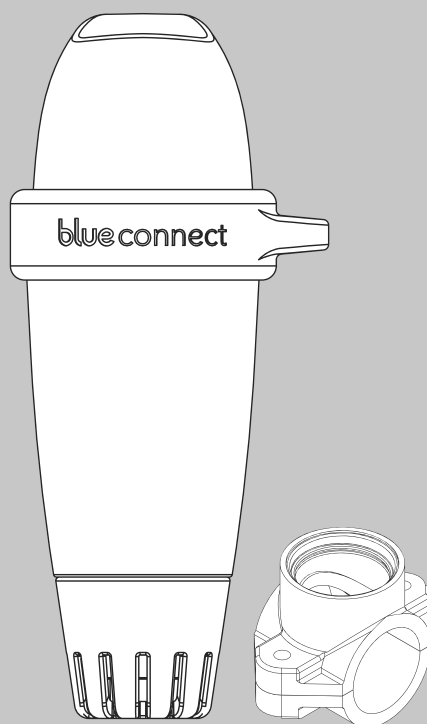


# blue connect blue fit50

QUICK START GUIDE

blue



EN

FR

ES

DE

NL

IT

PT

<b>EN</b>	» Quick start guide .....	<b>1</b>
<b>FR</b>	» Guide de démarrage rapide .....	<b>17</b>
<b>ES</b>	» Guía de inicio rápido .....	<b>33</b>
<b>DE</b>	» Schnellstartanleitung .....	<b>49</b>
<b>NL</b>	» Beknopte handleiding .....	<b>65</b>
<b>IT</b>	» Guida rapida all'avvio .....	<b>81</b>
<b>PT</b>	» Guia de início rápido .....	<b>97</b>

Thanks for choosing **Blue Connect**.

For more information consult the online user manual and view our videos on our website [www.blueconnect.io](http://www.blueconnect.io) (help).

## Introduction

### A. Overview

**Blue Connect** continuously measures the key parameters of your swimming pool (temperature, pH, chlorine, conductivity). It also informs you of the external temperature and weather based on your geolocation. The results of this analysis are then communicated to you via notifications on the "**Blue Connect**" app (available on smartphone and tablet, compatible with Android™ and iOS). If the device detects that one of the parameters is incorrect, an alert informs you of this status and provides you with the instructions to follow to regulate and stabilize this parameter in order to maintain a healthy and balanced water.

**Blue Connect** measures:

- » Water temperature (°C, °F): An elevated temperature reduces the efficiency of the chlorine and promotes the development of microorganisms.
- » pH (hydrogen potential): this quantity measures the acidic or basic character of a medium. pH contributes to the effectiveness of the disinfectant.
- » ORP/REDOX (measurement of active chlorine in mV): the oxidation-reduction potential, or redox potential, measures the oxidizing or reducing power of one substance compared to another. It provides information on the disinfecting power of water.
- » Conductivity<sup>1</sup> (µS): Measurement of the concentration of inorganic salts in the water by the ability of the latter to conduct electricity.

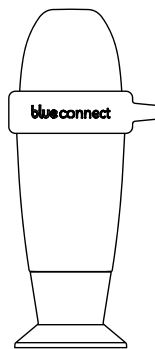
<sup>1</sup> For salt pools, salinity (more precisely the total salt content) is measured on the conductivity basis. Salinity (g/L) is used to evaluate the amount of salts in the water.

## B. Precautions for use

- » Do not use **Blue Connect** for anything other than water analysis.
- » **Blue Connect** is not a toy. Avoid shocks as they may damage it.
- » Keep **Blue Connect** out of reach of children when handling it (e.g. calibration and standby) due to the use of chemicals. Store calibration products out of reach of children.
- » Do not open the top part of the device (except when replacing the battery). Follow carefully the battery replacement instructions. Damage caused by liquids is not covered by the warranty.
- » Do not open the bottom part of the device containing the probe (except when replacing the probe). Follow carefully the probe replacement instructions. Damage caused by liquids is not covered by the warranty.
- » Make sure not to leave the probe out of the water without the storage cap filled with KCl (saturated potassium chloride), pH4 or, as a last resort, pool water.
- » Do not use demineralized water in the storage cap.
- » Make sure the top part of the unit is out of the water to allow the communication system to work.
- » Do not leave **Blue Connect** in water with a temperature below 5°C or above 50°C.
- » Keep the **Blue Connect** serial number and key<sup>2</sup>.
- » Store **Blue Connect** sheltered from frost.

<sup>2</sup> On the back of the quick start guide and on **Blue Connect**'s storage cap.

## Description of the equipment

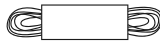


**Blue Connect** analyser: Delivered secured on the storage cap to protect the probe during transportation. The probe is immersed in KCl (saturated potassium chloride), which assures its protection.

The storage cap: Used to transport the probe out of the water or to keep the sensors immersed during an extended storage (in winter for example).



The usage cap: Must always be mounted on the device before placing it in water. It protects the sensors from any damage.



Cord: Allows to fix the device to a point of attachment.



Quick start guide: Helps you with the device start-up.

## App installation

1. Activate the Internet (Wi-Fi or 4G) and Bluetooth® on your smartphone or tablet.  
**Note:** Stay close to your device throughout the whole **Blue Connect** activation process.



2. Download the free "**Blue Connect**" app on App Store® and Google Play™.



3. Authorize notifications to benefit from the alerts.
4. Login to "**Blue Connect**":
  - » via Facebook®.
  - » via Twitter®.
  - » via your email address.
5. Create your swimming-pool: enter your swimming pool's characteristics.  
**Note:** You can view or modify the characteristics of your swimming pool at any time in "Settings" > "Pool".

**Note:** To add a second swimming pool in the app, press the name of the active swimming pool and select "Add a pool".

The application is divided in four main sections<sup>3</sup>:



**Dashboard:** Informs you of **Blue Connect**'s status, the water temperature, the local weather and the quality of your pool water.



**Table of values:** Informs you precisely of the values measured by **Blue Connect**, trends and ideal values.



**Maintenance guide:** Advises you on the operations to perform to maintain the quality of the water in your pool.



**Settings:** Allows you to configure the settings for your pool and **Blue** devices, as well as have access to help and technical support.

## Blue Connect installation

### A. How to start up Blue Connect?

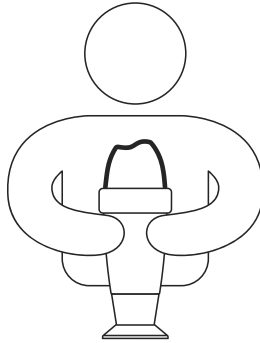
1.

In the app, in "Settings" » "**Blue Connect**", press "Add" and insert the code (key) and the three last digits of the serial number (SN), which can both be found on the back of the start guide or on the storage cap of the device.

<sup>3</sup> The app is subject to continual improvements and changes.



2. To start the device, you must activate it. The top of the device has a wave shape. Place the trough of the wave towards yourself and shake it sharply. You will hear two beeps, meaning that the initial activation was successful.

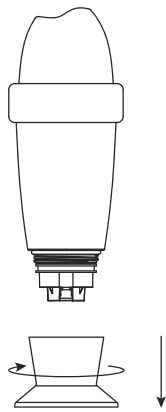


3. Press "ok" to finalize the activation process. The device is now linked to your account and permanently linked to Sigfox<sup>®4</sup> network.

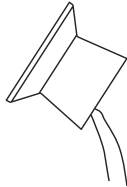
<sup>4</sup> Sigfox<sup>®</sup> is a telecommunications network specialised in the Internet of Things. It is a cellular network that does not interfere with domestic Wi-Fi. You can check if your swimming pool is covered by the Sigfox<sup>®</sup> network by visiting [www.sigfox.com/coverage](http://www.sigfox.com/coverage). Blue Connect uses Sigfox<sup>®</sup> to transfer data to your smartphone.



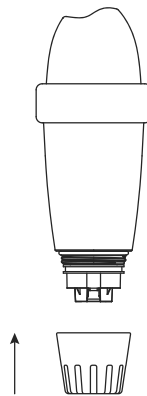
4. Place **Blue Connect** upright on the storage cap and unscrew it.



5. Empty the storage cap, rinse in clear water and store it.



6. Rinse the probe in clear water and place the usage cap in the external part of the device to protect the probes.

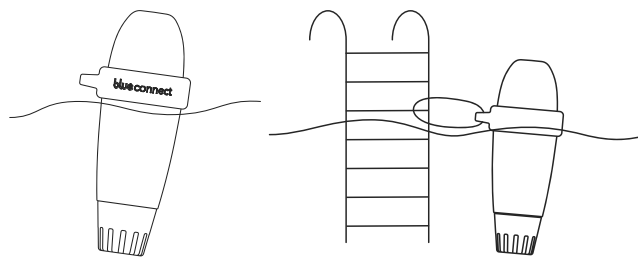


7. Place **Blue Connect** in the swimming pool:

In the **pool**: Leave it floating in the pool. If needed, you can secure by fixing it to a point of attachment with the cord and the rubber ring.

In the **technical room** with **Blue Fit50\***: For further information, please check our website [www.blueconnect.io](http://www.blueconnect.io) or contact your reseller.

\* **Blue Fit50** is a **Blue Connect** accessory. It is available in the **Blue Plus** pack, or sold separately.



**Note:** Make sure the device is in vertical position and the top part out of the water to allow a correct communication.

## B. Notes

- » Do not leave the sensor exposed to air.
- » The Sigfox® network connects automatically and sends measurements at regular intervals.
- » The sensor may take a few hours to stabilise its parameters after its first immersion in the swimming pool.
- » In case of non-existent Sigfox® coverage, there are two options:
  - » **Blue Connect** operates in Bluetooth®. In such case, you must take daily Bluetooth® measurement(s) for the device to perform its analyser work.
  - » **Blue Extender\*** allows **Blue Connect** to connect to your Wi-Fi network. For further information, visit our website or contact your reseller.

Feel free to watch our **Blue Connect** start-up video available on [www.blueconnect.io](http://www.blueconnect.io) (help).

\* sold separately.

## Troubleshooting guide

Compatibility problem between the serial number and the code.	Do not confuse B with 8 and vice versa.
No Sigfox® connection.	<ol style="list-style-type: none"> <li>1. Check your Sigfox® coverage on <b>www.sigfox.com</b>.</li> <li>2. Make sure the upper part of the device is out of the water to allow the communication system to operate.</li> <li>3. Try placing the device somewhere else in the pool to find the location with the best connectivity.</li> <li>4. Restart the device.</li> </ol>
Problem to complete the installation.	Take a measurement Bluetooth®.
Problem with Bluetooth®.	<ol style="list-style-type: none"> <li>1. Check the BLE 4.0. and Android 4,3 or iOS 9.3 compatibility.</li> <li>2. Activate Bluetooth® on your smartphone or tablet.</li> <li>3. Restart the device.</li> </ol>
The measurements are not correct.	Check calibration of the device.



Feel free to check our online support website to benefit from a remote help: **www.blueconnect.io** (assistance)

# blue fit50

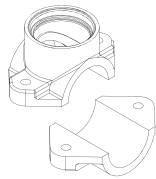
## Introduction

### A. Overview

The **Blue Fit50** is a hose clamp compatible with **Blue Connect**. It allows to install **Blue Connect** in the technical room.

**Note:** **Blue Fit50** is a **Blue Connect** accessory. It is available in the **Blue Plus** pack, or sold separately.

### B. The box includes



One hose clamp.



One cap.



x2



x2

2 bolts.

### C. Precautions for use

- » Do not leave the **Blue Connect** on the **Blue Fit50** when there is no water in the pipes.

- » If handling on the hydraulic circuit (risk of water hammer), it is advisable to remove the **Blue Connect** in order not to damage the product.
- » Make sure to create a sufficient flow in your installation so that the **Blue Connect** can take measures.
- » Always place the **Blue Connect** vertically with the probe downwards.

## Blue Fit50 installation

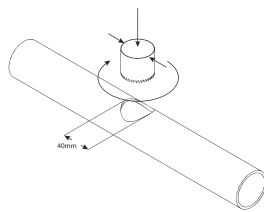
**Note:** Feel free to ask your pool specialist for advice in case of any doubt.

### A. Find the correct location

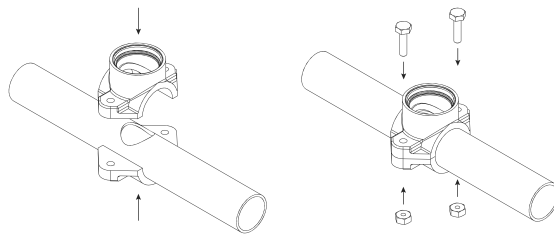
Make sure to always place the **Blue Fit50** after the filter (to avoid damaging the probes) and before your product injection system or electrolysis (to avoid altering the measures taken by the **Blue Connect**).

### B. Set up

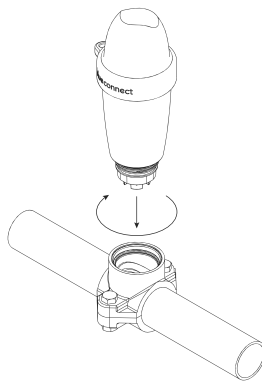
1. Turn off the filtration system.
2. With a 40mm diameter hole saw, drill a hole in the upper part of the pipe.  
**Note:** The **Blue Connect** must be in vertical position, with the probe downwards.



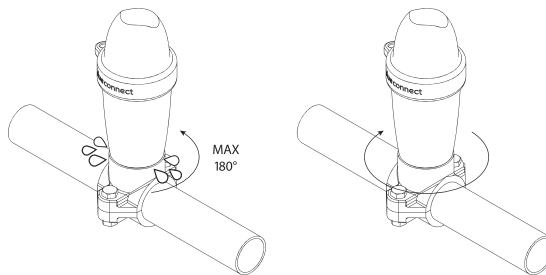
3. Place both parts of the hose clamp on each side of the pipe so that the holes coincide, and screw the hose clamp.



4. Screw the **Blue Connect**.



5. Turn on the filtration system.
6. Slightly and slowly unscrew the **Blue Connect** (maximum  $\frac{1}{2}$  turn) to remove any air. As soon as the water comes out, it means that there is no air left in the pipes, and you can then tightly screw **Blue Connect** again.



7. In "Settings" » "**Blue Connect**", activate the **Blue Fit50** option.

For further information, please check our website [www.blueconnect.io](http://www.blueconnect.io) (assistance).



## General information

### Warranties

- » Product + probes warranty: 24 months.
- » Battery warranty: 12 months.

Riiot Labs does not offer any warranty against the deterioration of the material following a manipulation of this latter, in particular the replacement of probe and battery, nor against the damages following the drying of the probes, nor against the wear and normal aging of the product, nor against the damages caused by an accident or a misuse. Riiot Labs does not offer any warranty in case of nonobservance of the precautions for use.

### How to recycle this product



This symbol indicates that this product must be disposed of in accordance with applicable legal requirements and separated from domestic waste. At the end of the product's life span, please take it to an official collection point. Sorting and recycling your product help protect the stocks of raw materials and guarantee that all guidelines relative to health and environment protection are respected as part of the recycling.

### Registered trademark

Riiot Labs, **Blue Connect** and **Blue Fit50**, as well as their respective logos, may be trademarks or registered trademarks of Riiot Labs S.A.

Fluidra as well as their logos are trademarks or registered trademarks of Fluidra S.A.

The Bluetooth® brand (and its logo) is a registered trademark and is the property of Bluetooth SIG, Inc. and its use by **Blue Connect** is subject to license.

EN

App Store is an Apple, Inc. service brand registered in the United States and other countries.

iOS is a trademark or registered trademark of Cisco in the United States and other countries, used under license.

Google Play and Android are Google Inc. brands.

All other trademarks and registered trademarks mentioned in this document are copyrighted and are the property of their respective owners.

#### **Declaration of conformity**



To obtain a copy of the FCC, CE declaration of conformity, visit our website [www.blueconnect.io/legal](http://www.blueconnect.io/legal).

For further information, please check our website [www.blueconnect.io](http://www.blueconnect.io) (assistance).

#### Declaration of conformity FCC

Changes or modifications not expressly approved by Riot Labs SA could void the user's authority to operate the equipment.

For devices with the references :

5404014411121  
5404014411145  
5404014411220  
5404014411240

#### FCC Part 15 / ISED compliance statement

This device complies with part 15 of the FCC Rules. 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. 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 instruction, 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 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 circuit different from that to which the receiver is connected. - Consult the dealer or an experienced radio/TV technician for help.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: 1. This device may not cause interference. 2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :  
1. L'appareil ne doit pas produire de brouillage;

2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

#### Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus

To satisfy FCC and IC RF Exposure requirements for mobile devices, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during operation. To ensure compliance, operation at closer than this distance is not recommended. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

#### Conformité à l'exposition aux champs RF des équipements radio

Pour satisfaire aux exigences FCC et IC concernant l'exposition aux champs RF pour les appareils mobile, une distance de séparation de 20 cm ou plus doit être maintenu entre l'antenne de ce dispositif et les personnes pendant le fonctionnement. Pour assurer la conformité, il est déconseillé d'utiliser cet équipement à une distance inférieure. Cet émetteur ne doit pas être co-situé ou fonctionner conjointement avec une autre antenne ou un autre émetteur.

#### Declaration of conformity CE



For devices with the references :

5404014411114  
5404014411138  
5404014411213  
5404014411233

Hereby, Riot Labs S.A. declares that the radio equipment type Blue Connect Smart Pool Analyser is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: [www.blueconnect.io/legal](http://www.blueconnect.io/legal)

SIGFOX : Tx : 868.13MHz / 14dBm max Rx : 869.525MHz  
Bluetooth LE : 2400-2483.5MHz / 10dBm max

Authorized countries codes:  
ALB - AND - AUT - BEL - BIH - BLR - BUL - CYP - CZE - DNK - EST - FIN - GRC - HNG - HOL - HRV - IRL - ISL - LIE - LTU - LUX - LVA - MDA - MKD - MLT - MNE - NOR - POL - POR - ROU - SRB - SUI - SVK - SVN - TUR



blue

For more information consult the online user manual and view our videos on our website [www.blueconnect.io](http://www.blueconnect.io) (help).

Riiot Labs S.A. products.