

BRIGHTWELL



BRIGHTLOGIC IOT

LAUNDRY DOSING SYSTEM CONNECTIVITY



INSTALLATION - SETUP - MAINTENANCE

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GENERAL INFORMATION

SAFETY INFORMATION



Wear protective clothing, gloves and safety glasses when installing our equipment or when handling chemicals. Follow the chemical manufacturer's guidelines for safety advice.



During maintenance work, depower the equipment whenever possible. Be aware of possible chemical residues that may remain on the various components of the equipment. Please flush the equipment with water before carrying out any work.

For information on the products used in this dispensing equipment, refer to the product label and the appropriate Material Safety Data Sheet (MSDS).



Caution! Risk of high voltage electric shock.



Electrical installation should only be carried out by trained personnel and in accordance with local electrical wiring regulations. Disconnect power to the unit and isolate it from any electrical source before servicing.



Do not supply power outside the limits indicated on the rating plate.



Please earth the safety equipment as this increases the dispenser's resistance to electrical noise.



Do not use damaged or frayed cables and prevent this from happening by using, when necessary, protective elements (cable glands, conduits, etc...).



The installation of the metering unit must be carried out according to the instructions in this manual.



Do not fix the unit on an unstable, uneven or non-vertical surface. Make sure that the different elements are well anchored. Do not place heavy objects on them.



This equipment works in a vertical position, with the control cabinet at the top left and the chemical products underneath the equipment. Do not install it in other positions.



Do not disassemble or modify this equipment, at the risk of losing the possibility of warranty. Replacement of components (pumps, pipes, valves,...) or modification of the system must only be carried out by qualified personnel.



Avoid running the system dry as this may cause damage to the dosing pump(s).



Always ensure that chemicals are handled with care and that the dosing equipment area is adequately ventilated.



Do not reach into the mechanisms

GENERAL INFORMATION

GUARANTEE

Your product comes as standard with a 2 year warranty from the date of manufacture, against manufacturing fault or defects and mechanical or electrical breakdown. Please visit our website for full terms and conditions.

www.brightwell.co.uk

BRIGHTLOGIC IOT

Connectivity for remote control of dosing in industrial laundries.

The new BRIGHTLOGIC IoT module is a key enhancement to Brightwell's solution for dosing in OPL laundries where BrightLogic equipment is used. BrightLogic equipment, designed to provide seamless online connectivity, remote equipment configuration and statistics retrieval.

This module enables real-time intelligent control and monitoring of up to 4 Brightlogic devices. Whether installed in small local laundries or large-scale facilities, it allows operators to take full control of dosing operations from anywhere.

Key Advantages

Connected: Instantly links your Brightlogic system to the Brightwell cloud, allowing remote access, configuration, and monitoring from any device with a browser—no special apps or software required.

Expandable: Allows users to seamlessly integrate their existing laundry set-ups into our new cloud monitoring and statistics systems

Secure: Access is fully controlled via user permissions. Only authorized personnel, as defined by the company, can access the system, with roles and functions clearly restricted as needed.

Insightful: Automatically records operational data—product consumption, alarm history, performance trends, and cost analysis—helping you optimise production, prevent failures, and reduce waste.

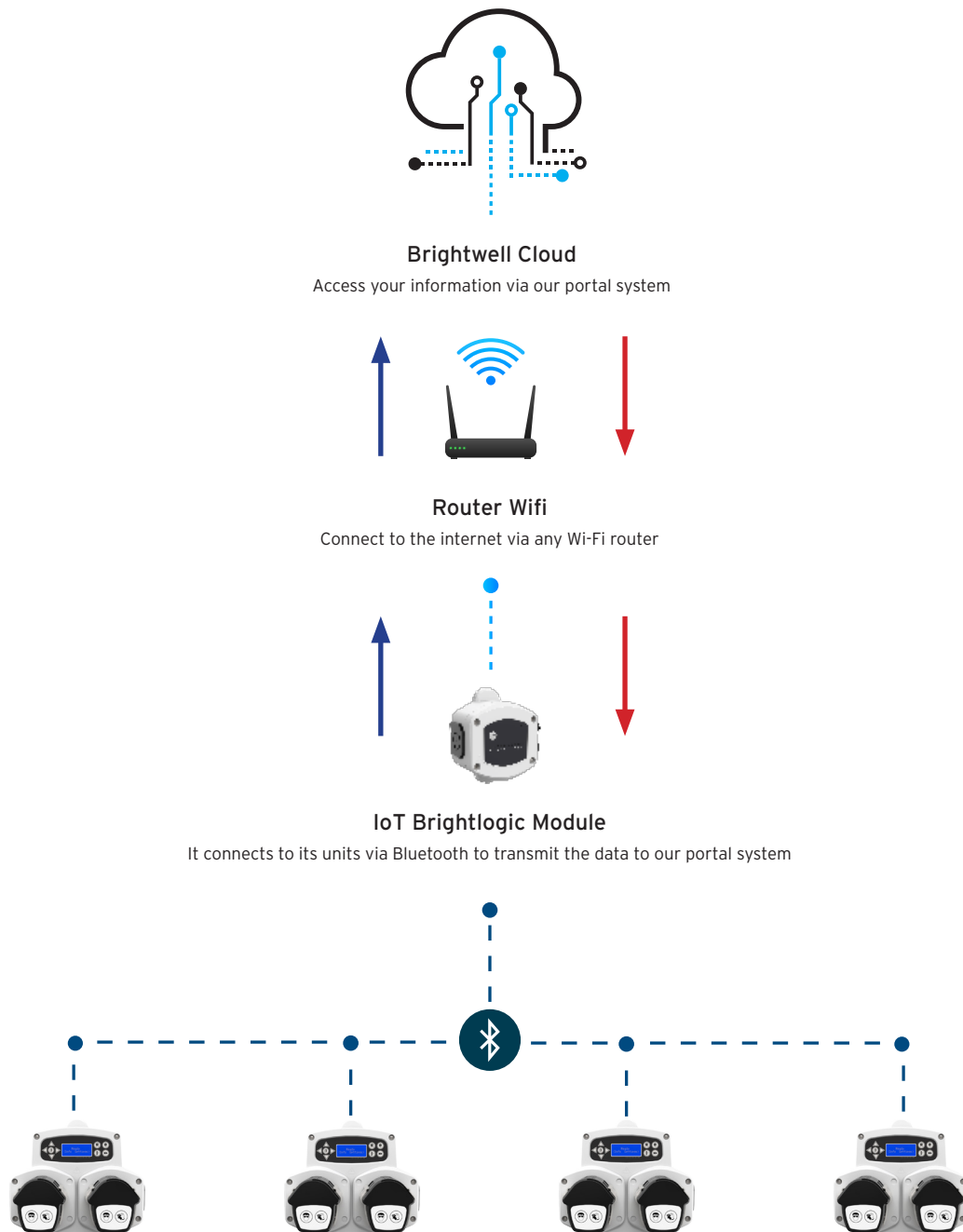
The IoT module is the perfect evolution of Brightwell's dosing technology—giving your Brightlogic OPL system the intelligence and agility to meet the demands of modern industrial laundries.

INTRODUCTION

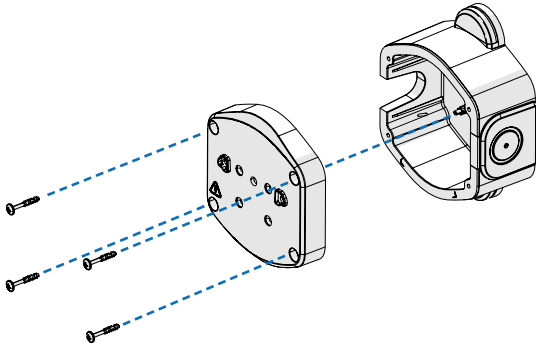
CONDITIONS

For BRIGHTLOGIC IOT to function properly, please note the following instructions:

1. BRIGHTLOGIC IOT needs to be connected via WiFi to a router with internet access.
2. In a laundry room, only one IoT module can be used for a maximum of four BrightLogic devices. Installing two units in the same laundry room would create connectivity conflicts between them and the installed devices.
3. The initial configuration of the devices must be done on the devices themselves, using the BrightLogic application. The initial configuration of the IoT module is unidirectional and the information from the devices is transcribed to the cloud. From this point on, connectivity is bidirectional.
4. BRIGHTLOGIC IOT can only be used with devices that implement BrightLogic firmware 2.12 or higher.
5. The Bluetooth channels of the different devices must be identified as BL.1, BL.2, BL.3 and BL.4, always in order and always starting with BL.1 (if there is one device, it must be BL.1; if there are two devices, they must be BL.1 and BL.2, etc.).

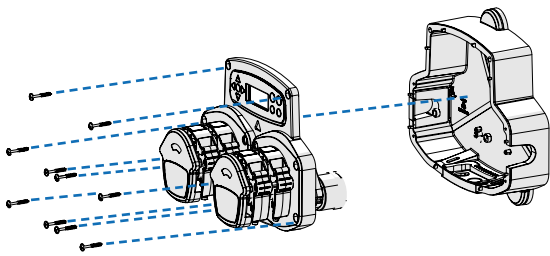


INSTALLATION AND CONNECTIONS



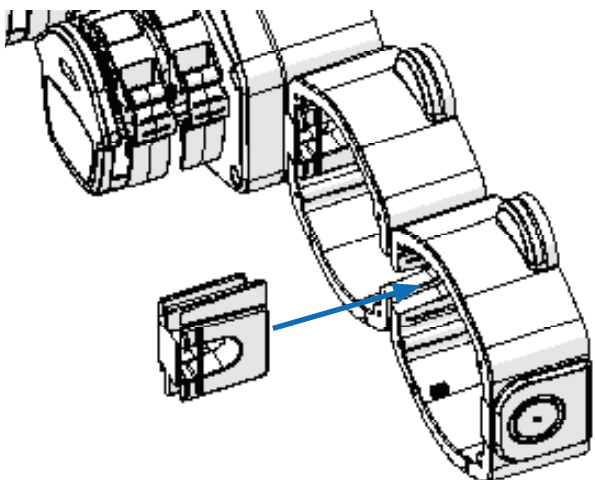
Step 1

Loosen the cover screws and remove the front cover from your IoT Module.



Step 2

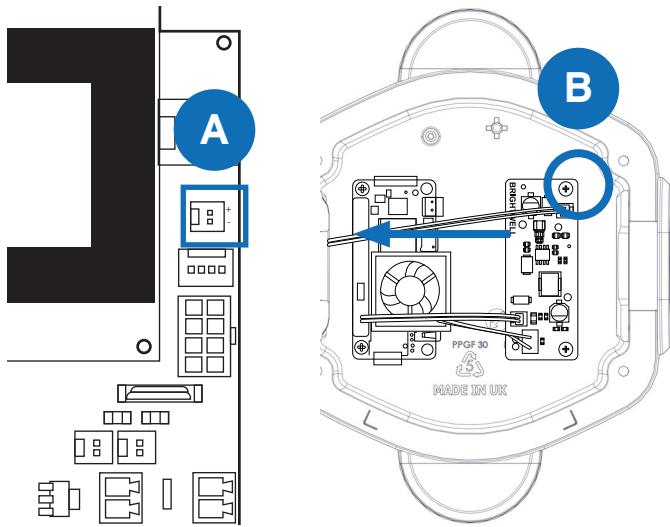
De-power your unit and open the main Brightlogic unit cover and any additional pump modules so you can access the main PCB.



Step 3

Use your extender connector to attach your IoT Module either to your main unit or the additional pump module.

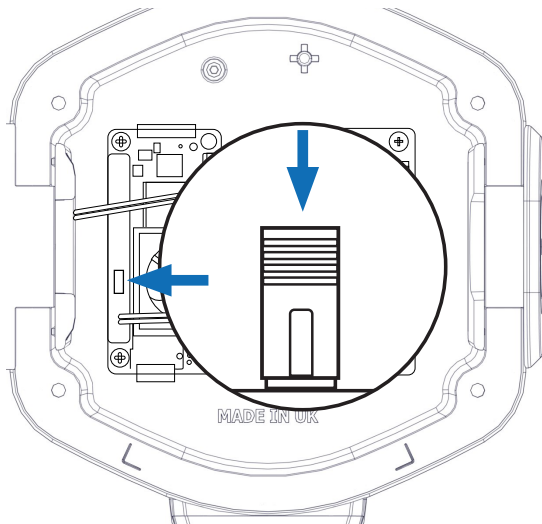
INSTALLATION AND CONNECTIONS



Step 4

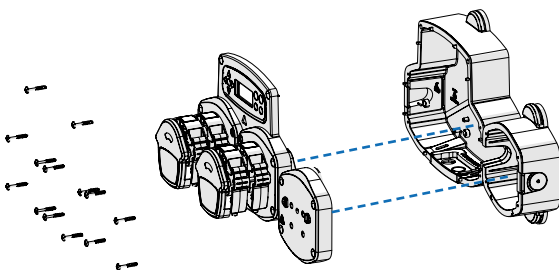
A. Locate the following connector on the PCB and pass the wire through to the main Brightlogic unit.

B. Locate the following connector and connect the cable from your Brightlogic IOT unit.



Step 5

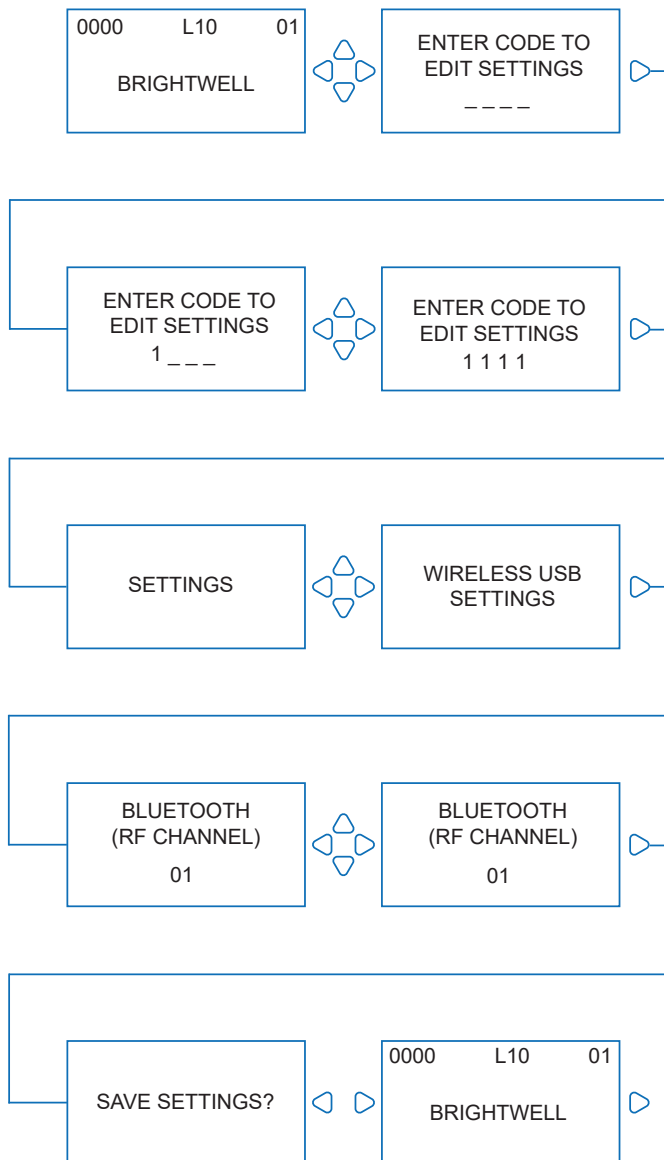
Confirm that the following jumper is connected to the Raspberry Pi board. As this enables the WiFi on the board.



Step 6

Reattach your front cover and power the unit ready to setup.

CONFIGURATION AND START-UP

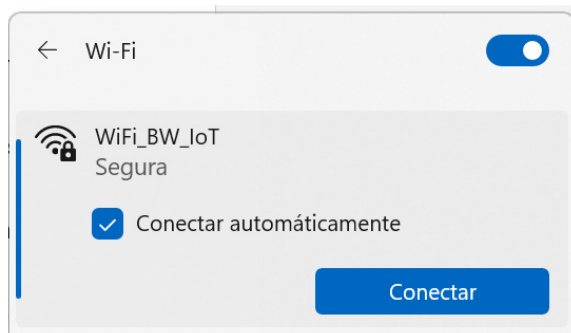


Step 0

There is a step you must take before connecting the module, which is **IMPORTANT**. To ensure a successful connection, two conditions must be met:

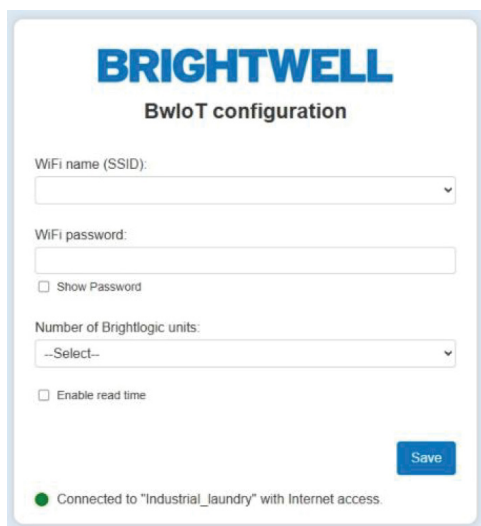
- The devices (up to 4) to be connected to the unit must be assigned to different, consecutive channels, starting with 1. Check the image to verify this and, if necessary, change it.
- The devices must have at least one parameter configured. If you attempt to connect new devices to BrightwellCloud, an error may occur.

CONFIGURATION AND START-UP



Step 1

Locate the unit's Wi-Fi network on your computer. The name will be **WiFi_BW_IoT** or similar. Connect and enter the password **brightwell** (all lower-case).

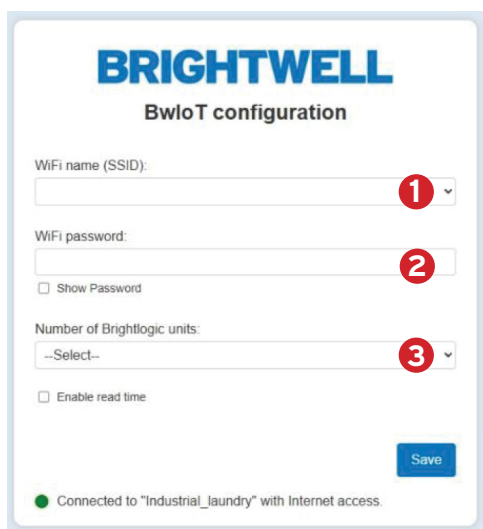


Step 2

With your computer connected to the Wi-Fi network generated by the IoT module, access the following IP address:

http://192.168.31.11/wifi_conf.html

The module configuration screen should appear.



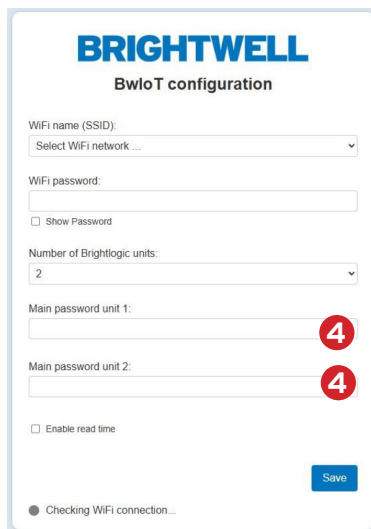
Step 3

- 1 Using the drop-down menu, identify the Wi-Fi network you want the module to connect to.
- 2 Enter the password for the selected Wi-Fi network
- 3 Next, enter the number of Brightlogic devices you want to connect (maximum 4).

Then enter the password for each device (the default is 1111). Important: All fields must be filled in. For fields "without a device", enter the default password.

Finally, press Save to complete the configuration.

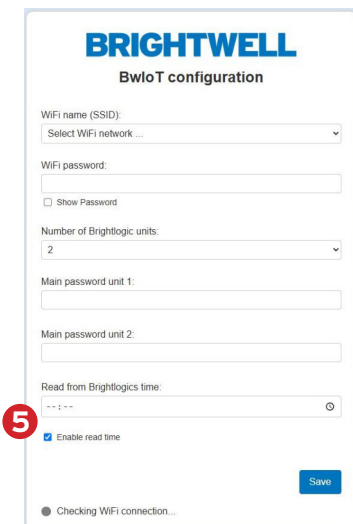
CONFIGURATION AND START-UP



The screenshot shows the 'BRIGHTWELL BwIoT configuration' page. It includes fields for 'WiFi name (SSID)' with a dropdown menu, 'WiFi password' with a 'Show Password' checkbox, 'Number of Brightlogic units' set to 2, and two 'Main password unit' fields. Both password unit fields are marked with a red circle containing the number 4. There is an 'Enable read time' checkbox and a 'Save' button. At the bottom, it says 'Checking WiFi connection...'.

Step 4

- 4** Enter the password for the devices. Please note that if the device password is changed at any time, it must be reconfigured in the module.



The screenshot shows the 'BRIGHTWELL BwIoT configuration' page. It includes fields for 'WiFi name (SSID)' with a dropdown menu, 'WiFi password' with a 'Show Password' checkbox, 'Number of Brightlogic units' set to 2, and two 'Main password unit' fields. Below these is a 'Read from Brightlogics time' field with a time picker. A red circle with the number 5 is next to the 'Enable read time' checkbox, which is checked. There is a 'Save' button. At the bottom, it says 'Checking WiFi connection...'.

Step 5

- 5** Enable the “Enable read time” option and choose a time when data uploading will not interfere with the device’s operating hours. The IoT Module updates the data in the cloud when a change is made in the cloud, when power is supplied to the module, and at the time specified in **5**. Data updates may affect the process being performed by the equipment, so it is recommended that the equipment not be in operation during this time.

Press **Save** to save the configuration.

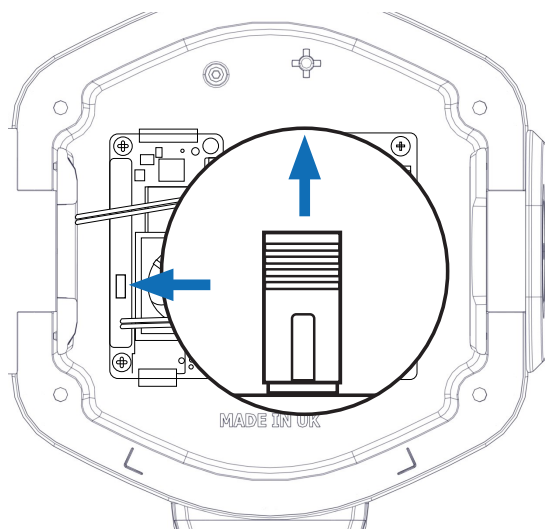
Configuration saved correctly

Restart the unit to apply the configuration

Step 6

The module’s WebServer will indicate whether the configuration has been completed successfully.

CONFIGURATION AND START-UP

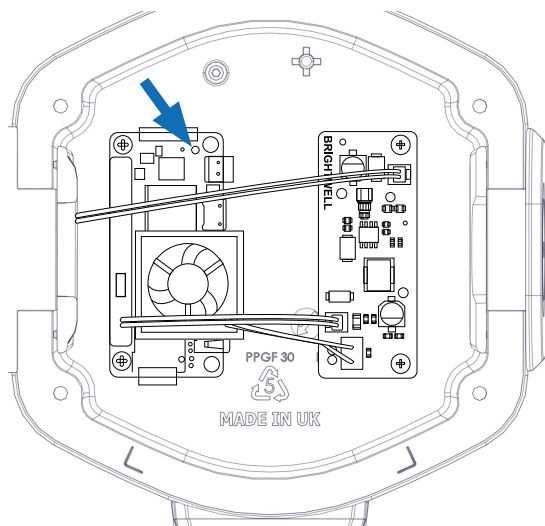


Step 7



Restart the IoT module by following these steps:

1. Switch off the power to the IoT module (you can do this by switching off the equipment)
2. Remove the jumper
3. Switch the power back on



Step 8

To check the Wi-Fi connection status, look at the LED's flashing pattern.

On start-up, whilst the module is booting, the flashing is intermittent and/or slow. Eventually, it stabilises into one of the following states:

Fast, continuous flashing (100 ms on and 100 ms off)

It is connected to the Wi-Fi and the Wi-Fi has internet connection. This is the desired state.

Intermittent flashing (200 ms on and 500 ms off)

It is connected to the Wi-Fi, but the Wi-Fi has no internet connection.

Slow, continuous flashing (1 second on and 1 second off)

It has been unable to connect.

If the fast, continuous flashing is not achieved, you must try the configuration again (by going back to step 5), disconnecting, reinserting the jumper and restarting the module.

REMOTE CONNECTION

www.brightwellcloud.com

The Brightwell Portal is the tool we provide for the remote management of all the equipment your company has connected. Its structure guarantees total security.

Information: The information is stored on each device and also on the Portal.

Use: The company creates users with individualised passwords and enables each one to access the selected equipment, according to the usage permissions granted to them.

For more information about the Portal, please consult the specific manual for this or contact BRIGHTWELL's Technical Service or Sales Department. The creation or editing of users, Sites (facilities where the different devices are located - a laundry, for example), product catalogue, device allocation, etc. are not detailed in this manual, which will focus solely on the user's remote interaction with BrightLogic devices through the IoT module and the Portal.

The BRIGHTLOGIC IoT module works by synchronising the data from each BrightLogic device with our cloud system. Once the module has successfully connected to the Internet, it will automatically synchronise all configuration and statistical data, enabling real-time transmission of the configuration and detailed information of each device while it is operating.

All you need is a standard web browser (Chrome, Edge, etc.) and you can manage your devices from anywhere you want. The administration account will be set up before your device is shipped and this information will be sent to you, allowing you to configure companies, users and areas as you wish.

REMOTE CONNECTION

The home page accessed by the user allows them to view, in different ways, the Sites (Clients/Installations) to which they have access. They will be able to operate in any of them according to the usage permissions assigned to them.

This manual will instruct you on how to access a facility where there is a BRIGHTLOGIC IOT module and how to edit the configuration of a device.

If you have any questions, please contact BRIGHTWELL's Technical Support or Sales Department.

The screenshot shows the BRIGHTWELL portal interface. The top navigation bar includes a menu icon (1), a search bar (2), the company name '01 CHEMICAL COMPANY VIC', a language selector (3), and a user profile section (4) for David Hayes. The left sidebar (5) contains navigation links: My company, My users, My catalogue, My inventory, and Sites dashboard. The main content area (6) displays a 'Sites' dashboard (7) with statistics: Total sites (2), Found (2), Units Connected to cloud (4, 100%), Units Streaming (2, 50%), Units Idle connection (0, 0%), and Units Quarantine (0, 0%). Below this is a filter section (8) with dropdowns for Area and Distributor, date pickers for creation date, and radio buttons for Alarm and Connectivity status. A table (10) lists sites with columns for Name, Country, City, Alarm status, and Connectivity status. A search bar (9) is located above the table. The bottom of the table shows 'Showing 1 to 2 of 2 elements' and pagination controls.

Name	Country	City	Alarm	Connectivity
Brightwell Briefcase	Spain	Gurb	Detected	Not connected
Spain wetlab	Spain	Gurb	Detected	Not connected

- 1 This will reduce or expand the side menu
- 2 Here you can quickly search for Equipment, centres or customers
- 3 If you need to change the language, use this icon
- 4 To configure your profile or log out, click here
- 5 The side menu allows you to navigate between the different sections of the portal
- 6 To add a new site to your system, click on this green icon
- 7 This is a quick summary of your Teams and statistics
- 8 To filter the list of sites below, use this box to set the parameters you want
- 9 Another search bar to quickly filter Teams
- 10 Shows all Sites -Clients/Facilities- to which the user has access and which have connected to the Portal

REMOTE CONNECTION

Equipment configuration

Website creation and team allocation

BRIGHTWELL

01 CHEMICAL COMPANY VIC

Back to panel

Jordi Umbria
01 CHEMICAL COMPANY VIC

01 CHEMICAL COMPANY VIC > Sites

Sites

Category	Value	Percentage
Total sites	25	
Found	25	
Units Connected to cloud	23	40 %
Units Streaming	10	17 %
Units Idle connection	0	0 %
Units Quarantine	0	0 %

Step 1

Firstly, if it does not already exist, you must create the “site” – the laundry where the module will be installed. Click on and follow the steps to fill in the required information. If you have any queries, please contact the Sales Department.

BRIGHTWELL

Units

New Brightlogic IoT module
I430754898
Basic OPL Laundry Brightlogic IoT Module
06/22/2026
MD 2026-06-22 MAC 88:a2:9e:bac:4:0d
OS 12 (bookworm) Kernel 6.12.62+rpt-rpi-v8
SV V.0.0 DB V.1.2 HMI V.0.0
Assign company

New Brightlogic IoT module
B431803897
Basic OPL Laundry Brightlogic IoT Module
06/30/2026
MD 2026-06-30 MAC 88:a2:9e:ft:29:07
OS 12 (bookworm) Kernel 6.12.62+rpt-rpi-v8
SV V.0.0 DB V.1.2 HMI V.0.0
Assign company

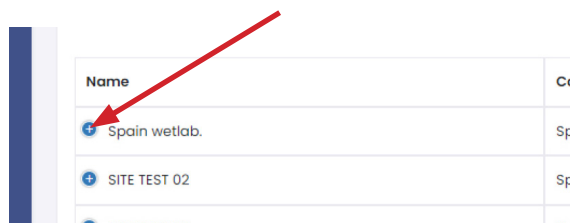
Step 2

Go to the company's “Inventory”, locate the unit you wish to install, note down its serial number, and assign it to the laundry where it will be installed. If you have any queries, please contact the Sales Department.

REMOTE CONNECTION

Equipment configuration

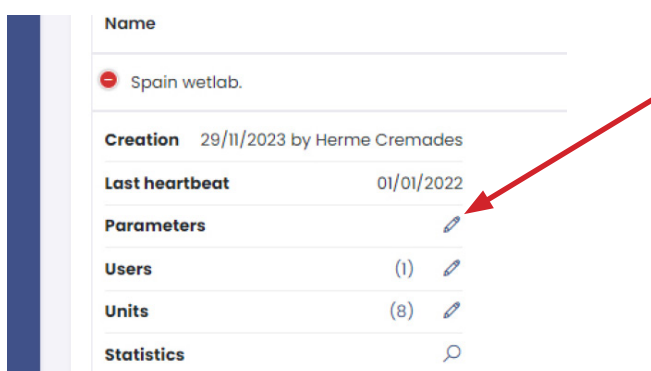
How to access a BrighLogic device in an installation



Step 1

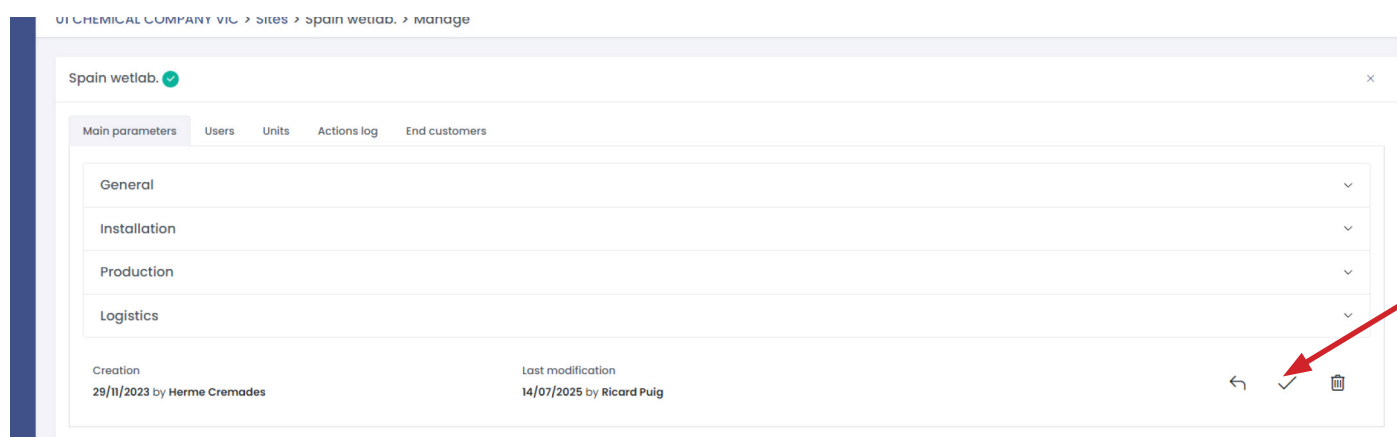
In the area shown **10** in the image above, locate the installation where the IoT module is fitted.

Open the menu by clicking on the icon **+** to the left of the installation (marked with an arrow in the image)



Step 2

Click on the icon  in the Parameters row. This step must be carried out the first time you access the IoT module remotely to trigger system synchronisation.



Step 3

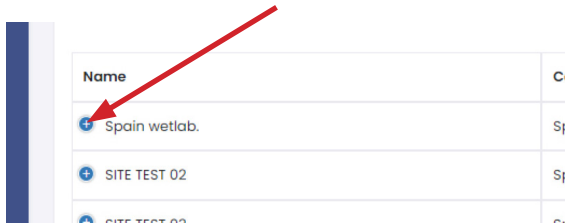
Confirm the settings by clicking  (marked with an arrow in the image).

This step synchronises all settings (users, etc.) between the Portal and the IoT module.

Once synchronisation is complete, return to the previous screen (using the browser's back arrow) to check that the device(s) have synchronised correctly with BrightwellCloud. You will see this in the following steps

REMOTE CONNECTION

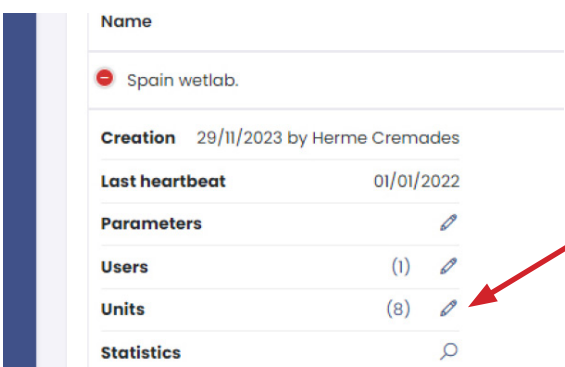
Equipment configuration



Name	Ct
+ Spain wetlab.	Sp
+ SITE TEST 02	Sp
+ SITE TEST 03	Sp

Step 4

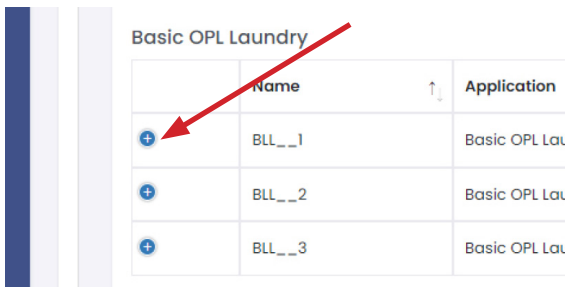
Open the menu again by clicking on the symbol  to the left of the installation (marked with an arrow in the image)



Name
 Spain wetlab.
Creation 29/11/2023 by Herme Cremades
Last heartbeat 01/01/2022
Parameters 
Users (1) 
Units (8) 
Statistics 

Step 5

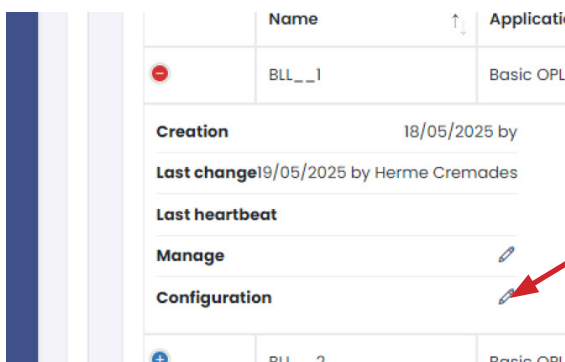
Click on the icon  in the 'Units' row to view all the units at that site and select the one you want (marked with an arrow in the image).



Basic OPL Laundry		
	Name	Application
+ 	BLL__1	Basic OPL Lat
+ 	BLL__2	Basic OPL Lat
+ 	BLL__3	Basic OPL Lat

Step 6

The devices connected to the installation's IoT module are displayed as shown in the image.
Open the menu by clicking on the icon  to the left of the device you wish to access (marked with an arrow in the image)



	Name	Application
	BLL__1	Basic OPL
Creation	18/05/2025 by	
Last change	19/05/2025 by Herme Cremades	
Last heartbeat		
Manage		
Configuration		
+ 	BLL__2	Basic OPL

Step 7

Click on the icon  in the 'Configuration' row to access the device settings (indicated by the arrow in the image).

REMOTE CONNECTION

Equipment configuration

The device's general settings page will open, displaying the same options you are familiar with from the BrightLogic app.

In the 'Unit SN' field, you should see the device's serial number (blue arrow). If so, the device's data has already been 'uploaded' to the Cloud.

On this page, you will see the settings for the selected device and can edit (change) them.

You must confirm any changes you make by clicking on the icon in the bottom right-hand corner.

The change will be downloaded to the appliance within a maximum of 5 minutes.

Configuration changes made 'locally' on the unit will be recorded and displayed in BrightwellCloud if the unit is restarted or at the 'Read Time' set when configuring the module.

IMPORTANT! To ensure accurate statistical analysis of the equipment's data, it is important that you enter the washing machine's capacity (in the field marked with a red arrow in the image) and confirm.

BRIGHTWELL

01 CHEMICAL COMPANY VIC

Back to panel

Jordi Umbria

01 CHEMICAL COMPANY VIC

01 CHEMICAL COMPANY VIC > Sites > Spain wetlab > Units > BL...1

Unit

Name: BL...1

Unit config

Config unit type: 5

Operation mode: ☐ None ☒ Standard Mode ☐ Standard Mode: Hot/Cold ☐ Relay Mode ☐ Levels Mode

Unit identity

S/W: 212 Unit SN: 1234 CPU S/N: 62400754

Customer Name

Line1: LINEA 1 Line2: LINEA 2

Washer

Name: LAVADORA 1 Nominal Kg: 21

Signals

Signal acceptance (sec): 3

Unit Reset

Reset delay off: ☒ Mins: 5 Secs: 55

On...: Last input Reset to opt: Wait for user select Reset to formula: 13

Dosing

Flush valve

Mode: ☐ After Only ☒ During and After

Flush Time Valve: Mins: 3 Secs: 3

Pump settings

Products	Pump Name	Pump Calibration	Pump Speed
P1	BR ALKAN BR ALKAN	301	61
P2	BR TENSIP PRO BR TENSIP PRO	302	62
P3	Chlorine Chlorine	303	63
P4	Degreaser Degreaser	304	64
P5	Search for Catalogue products...	305	65
P6	Search for Catalogue products...		
P7	Search for Catalogue products...		
P8	Search for Catalogue products...		

Safety switch

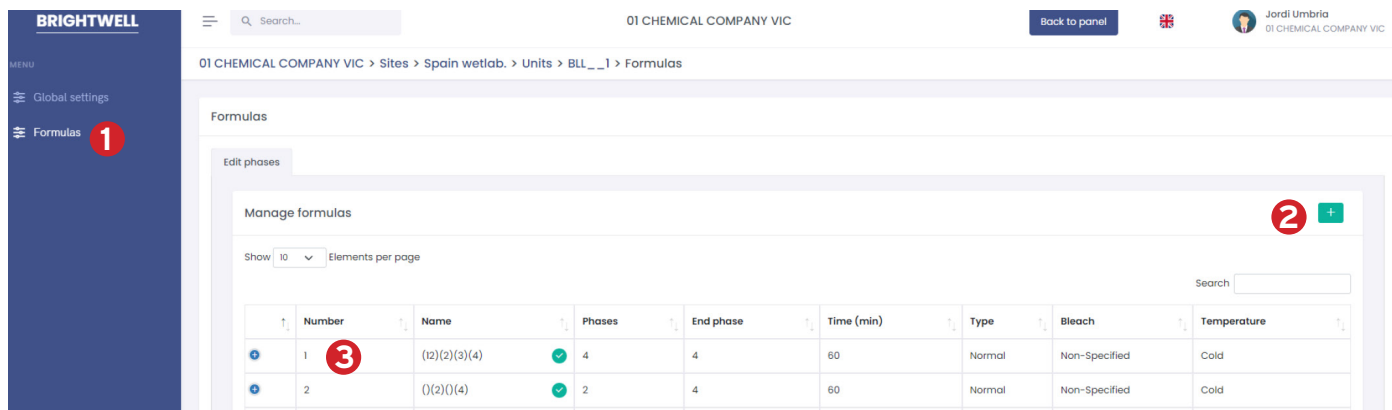
Safety switch: ☐ None ☐ Flow switch ☒ Pressure switch

Options enabled

☒ View mode enabled ☐ Pump stop enabled ☒ Prime mode enabled

REMOTE CONNECTION

Creating or editing formulas



Step 1 (for creation)

To create a formula, click on 'Formulas' (marked with 1)
A list of the formulas stored on the device will be displayed.

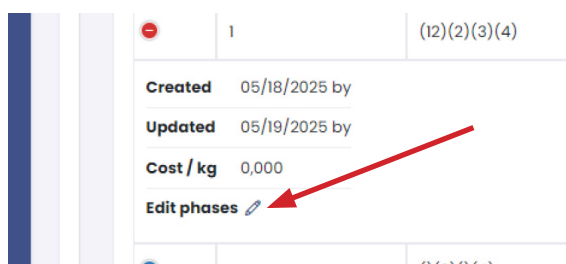
To create a new formula, click on  (marked with 2)

Continue to the next page for Step 3.

Step 1 (for editing)

To create or edit a formula, tap on 'Formulas' 1
A list of the formulas stored on the device will be displayed.

Tap on  the formula you wish to edit (marked with 3)



Step 2 (for editing)

Click on the Edit phases icon  (marked with an arrow in the image)

REMOTE CONNECTION

Equipment configuration

Step 3

Please note the following instructions:

- 1 Buttons that allow you to save your changes (✓), return to the list of formulas (←) or delete the formula (🗑)
- 2 Tap the pencil icon to edit the formula name
- 3 Estimated time, Type, Bleachy Temperatures are fields that allow you to complete the statistics
- 4 Field used to assign a number to the phase corresponding to the received signal. Normally, 1 = Pre-wash, 2 = Wash, etc.
- 5 This field allows you to identify the phase. Select 'None' if you wish to delete the phase in question. It will be deleted upon validation.
- 6 Click + Add phase to add a phase. Number it (4) so that, when you confirm, it appears in the desired order
- 7 This allows you to select a product from the catalogue. Select the top one (the blank one) if you wish to remove a product from the stage.
- 8 Enter the quantity to be dispensed
- 9 Enter the delay (in seconds) you wish to apply to the product dispensing
- 10 Please specify which signal will be used to trigger the dosing of the specific phase:
 Pulse = 0 Each time the signal corresponding to the phase is received, the programmed dose will be dispensed
 Pulse = 1 The dose will be dispensed the first time the signal is received, and only on that first occasion
 Pulse = n Dosing will take place the n time once the signal is received, and only at that moment. For example, if Pulse = 2, the first time the signal is received, the unit will do nothing. The second time it is received, dosing will take place. If the signal were to be received again, the unit would do nothing.

Always remember that any changes made must be confirmed by clicking ✓ (marked with 1 in the image)

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