

# Indicator LED Colors & What They Mean

Modified on: Wed, Sep 29, 2021 at 12:14 PM

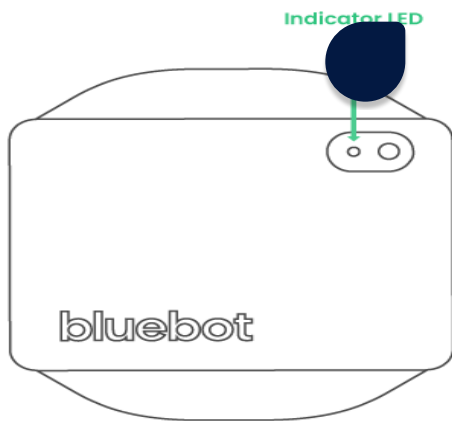
## TABLE OF CONTENTS

- [Introduction](#)
- [Yellow](#)
- [Green](#)
- [Blue](#)
- [Purple](#)
- [Red](#)
- [Pink](#)

Estimated reading time: 4 minutes, 20 seconds

## Introduction

The indicator LED on your bluebot is located next to your power button. During setup you will be prompted to pay attention to the color of the device indicator LED as you connect and install your device. If a problem occurs you may also use the status of the device to troubleshoot and potentially come to a resolution.



If you are experiencing an issue you can use the behavior patterns below to locate your issue and find the solution.

## ● Yellow

Yellow lights are all about connection, you will see a yellow light when connecting your bluebot to your home network before it eventually turns blue and connects to the cloud or fails and shows a different behavior pattern.

Blinking Yellow: attempting to connect to the last known Wi-Fi network SSID (Network Name) and Password that was input by the user via the bluebot app.

### Weak Wi-Fi Signal Strength At Install Location

Behavior patterns:

Attempting to connect to the access point, connection successful, repeat.

|          |   |       |   |          |   |       |   |         |
|----------|---|-------|---|----------|---|-------|---|---------|
| Flashing | ● | Solid | ● | Flashing | ● | Solid | ● | Repeats |
|----------|---|-------|---|----------|---|-------|---|---------|

Solution: You may need to install a quality Wi-Fi repeater to increase the strength at the install location, especially if you're in a basement or

Tip: It can be helpful if you have a mesh system with an app to create a dedicated network for your IoT devices like bluebot.

### Incorrect Credentials or Too Far From The Access Point

Behavior pattern:

Attempting to connect to the access point, connection failed.

|          |  |       |  |          |  |       |  |         |
|----------|--|-------|--|----------|--|-------|--|---------|
| Flashing |  | Solid |  | Flashing |  | Solid |  | Repeats |
|----------|--|-------|--|----------|--|-------|--|---------|

Solution: Ensure your network name (SSID) and password are correct, this is a very common issue. You may also be too far from your router, to test

## Green

### States:

Blinking Green: initializing "Access Point" (AP mode).

Solid Green: AP mode active, now ready to connect to phone's Wi-Fi network.

### Environmental Interference

RF (radio frequency) Interference can interfere with the required 2.4ghz channel that the bluebot uses to connect and transmit data to the cloud. Microwave ovens, cordless phone systems, bluetooth systems and other Wi-Fi networks can all be responsible.

#### Behavior pattern:

Cycling between flashing and solid green (without button input indicates environmental interference).

|          |   |       |   |          |   |       |   |                    |
|----------|---|-------|---|----------|---|-------|---|--------------------|
| Flashing |  | Solid |  | Flashing |  | Solid |  | Repeats Infinitely |
|----------|---|-------|---|----------|---|-------|---|--------------------|

Solution: Troubleshooting RF / Wi-fi Interference can be done by using a tool like [NetSpot](https://www.netspotapp.com/) to reduce interference by i

## Blue

### States:

**Solid blue:** device is online and connected to the cloud.

**Blinking blue:** The bluebot device LED conveniently blinks to give a direct on-device visual indication when there is flow occurring. Slow blinking frequency indicates a lower flow is occurring and fast blinking frequency indicates that more water is flowing through the pipe. After installation, this is the expected behavior for your bluebot device.

### False Flow - Signal Noise

If the LED is blinking when you know there is no flow, this may be a "False Flow" caused by signal noise. Noise in rare cases is an installation issue found with all ultrasonic flow meters. If you see in your app show 0.1 to 0.4gpm flowing consistently it could be considered "noise" or false flow. Your bluebot can re-zero itself using the App--this function can be found in the Hardware Section by selecting "Device Profile" then scrolling down and selecting "Sensor Details".

LED Behavior pattern: Flashing one time very regularly (every 30 seconds or every minute)

|          |   |       |   |                               |
|----------|---|-------|---|-------------------------------|
| Flashing |  | Solid |  | repeats every 30 - 60 seconds |
|----------|---|-------|---|-------------------------------|

Tip: Your bluebot flashes to indicate the flow rate, if your bluebot is flashing blue at different speeds and even flashing very slowly, this can

## Purple

### States:

Blinking purple: device is connected to your Wi-Fi network, but cannot establish connection to the bluebot cloud.

### Firewall Blocking

This is generally a firewall setting on your Wi-Fi network and is most common in commercial network environments.

#### Behavior pattern:

Flashing one time very regularly (every 30 seconds or every minute)



Solution: We recommend consulting your IT/ISP professional and/or contacting us.

## Red

### States:

Solid red indicator LED normally means the bluebot is unable to connect to the Wi-Fi network because it is too far away or the credentials (SSID / Password) are either no longer valid or incorrect.

### Failed Connection

This is generally a firewall setting on your Wi-Fi network and most common in commercial network environments.

### Behavior pattern:

Solid red



Solution: Restart the connection process if you're experiencing this during initial setup of the device. If the LED indicator is red after you have had the device operational make sure the Wi-Fi

## Pink

### States:

Blinking pink: poor ultrasonic signal quality.

### Poor Ultrasonic Signal Quality

Possible cause: device adjustment, empty pipe during last rescan, dirt/debris interfering with device ultrasonic sensors.

### Behavior pattern:

Flashing Pink



Solution: Perform a rescan when you are sure your pipe is pressurized/full. If that does not resolve your issue, check on your device installation status. Remove from the pipe, check the ultrasonic pads for dirt/debris, and ensure the bluebot is placed with a tight snug fit on the centerline of pipe as shown in the illustration.

Read all about signal quality [HERE](https://bluebot.freshdesk.com/en/support/solutions/articles/70000576058) (https://bluebot.freshdesk.com/en/support/solutions/articles/70000576058)

If you have any questions or would like to speak to a member of the bluebot team, contact us directly at [hello@bluebot.com](mailto:hello@bluebot.com) or call/text (831) 275-