dollar curtains+blinds

Pulse 2 Hub | Set up Instructions for Android

The Pulse 2 connects to home networks to unlock the luxury of automated shade control. Experience customization with scene and timer options as well as voice control via Google Assistant, Amazon Alexa

THE APP ALLOWS FOR:

- 1. Individual and group control Group Automate shades by room and conveniently control them accordingly.
- 2. Remote connectivity Control shades remotely, whether home or away on a local network or an internet connection.
- 3. Scene control Personalize shade control and organize how your shades operate by specific daily events.
- 4. Timer functionality Set and forget. Lower, raise and activate shade scenes automatically at the optimal time.
- 5. Sunrise and Sunset Utilizing time zone and location, the Pulse 2 can automatically raise or lower Automate shades according to the position of the sun.
- 6. Compatible IoT Integrations:
 - Amazon Alexa
 - Google Home
 - IFTTT
 - Smart Things
 - Apple HomeKit (For iOS Users)

GETTING STARTED:

In order to experience automated shade control through the dc+b control app, you will need to have:

- Downloaded the free dc+b control app via the Google Play Store also available for Android Tablets.
- Purchased one or more Hub's depending on the size of the area you would like to cover.
- Familiarized yourself with the app navigation guide below.
- Created a Location then pair hub to that location. Our step-by-step guide will explain in more detail.

WI-FI HUB TECHNICAL SPECIFICATIONS:

- Radio Frequency range: ~ 60 feet (no obstructions)
- Radio Frequency: 433 MHz
- Wi-Fi 2.4 GHz or Ethernet Connectivity (CAT 5)
- Power: 5V DC
- For Indoor Use Only

BEST PRACTICES FOR PAIRING THE HUB WITH YOUR WI-FI NETWORK:

- Only pair your hub via 2.4GHZ Wi-Fi (Lan Pairing is not supported) Do not connect ethernet to the hub.
- The Hub must be within signal range of both the automated shades and 2.4GHZ Wi-Fi.
- Ensure 5Ghz are disabled on your Wi-Fi router or disconnected from your mobile device.
- Check your phone and confirm if the Home App has been installed.
- Environments with multiple WAPs (wireless access points) may need all but the main router temporarily disabled.
- Security settings on your router and on phone may need to be temporarily disabled.
- Place the Hub in a horizontal position. (avoid metal enclosures / ceiling or any other locations that may affect the range.
- Before starting the Hub installation, make sure that all your shades are functional and charged. You can test the shade using a remote control or pressing a "P1" Button on the motor head.
- In case of range issues, it is recommended you deploy the antenna or reposition the hub in your installation.
- Add additional repeaters if is required (Only two per Hub).

CAPABILITIES:

- Motors per Hub:30
- Locations per account: 5
- Hub's per location: 5
- Rooms per Location: 30 per Hub

- Scenes per Hub: 20 (100 per location)
- Timers per Hub: 20 (100 per location)

WHAT'S IN THE BOX?



A. Automate Pulse 2 Hub



B. USB Power Supply



C. 32" (80cm) USB Power Cord



D. Ethernet cable



E. Quick Start Guide

UNPACKING THE HUB 2.0:



1. Unpack the Pulse



2. Check the Box Contents.



3. Plug the USB Cord into the Power Supply



4. Connect the Micro USB end into the back of the Pulse 2



5. Plug the Power Supply into the outlet and place the Hub in a central location in your home.

APP NAVIGATION:



Home Favorite Scenes Timers

Home:Shows the main control screen with rooms and devices tabsFavorites:Allows you to create a list of your favorite Devices or ScenesScenes:Show a list of scenes createdTimers:Show a list of scene timers

Home Page



QUICK START SETUP:

NOTE: You cannot pair the hub via the Ethernet cable connection, Wi-Fi only via a 2.4GHZ connection. Refer to troubleshooting for more information.





ADDING ADDITIONAL HUB TO EXSITING LOCATION:

STEP 1 - Configure a Hub	STEP 2 – Add Hub	STEP 3 - New Hub	STEP 4 - Select Time Zone
4:34 ta	434	4.34 대 외 송 등 채교 54%을 <	4.34 II IIII 중 주문제 54% IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
ADD NEW LOCATION	🗢 default	CONNECT TO SHARED HUB	TIMEZONE
ACCOUNT >	ADD NEW HUB		
HELP >	CHANGE LOCATION IMAGE		USA-EST *
	MAKE ACTIVE LOCATION		USE DAYLIGHT SAVINGS
Select menu then the desired location to add a new hub to.	Click on "ADD NEW HUB" to start the process to setting up your HUB on the App.	Select "connect to new Hub"	Scroll Up and down to select the Time Zone for the Hub





CREATING A LOCATION:



ADDING CUSTOM HOME IMAGE:

STEP 1- Custom Home Image	STEP 2- Custom Home Image	STEP 3- Custom Home Image	STEP 4- Custom Home Image
4.37 🖬 🕸 ♦ % tit at 54% à	4-38 ■ ■ ● ® Million 53% ■ ← Back LOCATION SETTINGS Done NAME My Home > Hubs	438 □ ♥ ♥ Table 53% ■ ← Back LOCATION SETTINGS Done NAME My Home > Hubs	4.38 ■ ■ ● ● ● ■ ■ ● ● ■ ■ ■ ◆ Back LOCATION SETTINGS Done NAME My Home > Hubs
ADD NEW LOCATION	🗢 default	C default	🗢 default
	🗢 default	🗢 default	🗢 default
HELP >	ADD NEW HUB	ADD NEW HUB	ADD NEW HUB
VERSION 2.1 (7)	CHANGE LOCATION IMAGE	CHANGE LOCATION IMAGE	CHANGE LOCATION IMAGE
	MAKE ACTIVE LOCATION DELETE LOCATION	MAKE ACTIVE LOCATION DELETE LOCATION	MAKE ACTIVE LOCATION
		Location Image	Allow de+b to access photos and media on your device?
		Clear Image	Allow
		Cancel	Deny
From the main menu select the location you wish to change the home image for.	Select "Change Location Image".	Choose to "Select Image from Library"	You will need to Allow Pulse 2 access to import your image

HOW TO PAIR A MOTOR TO THE APP:

shade.

During the setup, the hub may need to be moved room to room during the pairing process. We recommend setting up your motors with a remote prior to syncing with the App.

STEP 1 - Pair a motor	STEP 2 - Pair a motor	STEP 3 - Pair a motor	STEP 4 - Pair a motor
438 C Collar curtains-blinds	4.39 In P ♦ २.೫.४ 53% ▲ ← Back ADD NEW DEVICE Living room Hub @ default	4.39 □ ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	439 □ ♥ ♥ ♥ ₩ # 53% ■ ← Back POWER ON DEVICES
ROOMS DEVICES		Drape Drape Left Drape Right	
Hone Faurtes Scores Timers	Please select a hub you wish to add a device to. NEXT Step 1 of 7	Siglight Bottom Up Roller	Please ensure your hub and the device to be paired are powered on.
On the home screen select 'DEVICES' then select the 'Plus' icon to add a new	From the list select the HUB you wish to pair the motor	Select which device type best represents your shade.	Make sure the shade device is plugged in or ready to be

later)



"Next".

If pairing fails, try the process

again.



screen.

8

HOW TO OPERATE SHADES:

STEP 1 - Operate Shade	STEP 2 - Open a shade	STEP 3 - Close a shade	Battery Health
	4.41 🖬 🖤 ♥ 🖘 № № 53% a 🗲 Back Shade Edit	4.42 I I 이 아이지 53% 을	4-41 ⊑ ∎ ♦ ® 25% ≜ ← Back Shade Edit
dollar curtains+blinds		DEVICE NAME Shade >	
	(1-1)		(**)
8		DEVICE HUB Living room Hub	
		Disgnootic information	v v
		DEVICE ADDRESS UOP	
ROOMS DEVICES		BATTERY TYPE D24	
+	v v	DEVICE VOLTAGE 64%	
Shade No Room		SIGNAL STRENGTH -53	
		STATUS Online	61 %
	$\bullet \bullet \bullet$	Position Settings	• • •
		TOP POSITION >	
		BOTTOM POSITION >	
		DELETE DEVICE	
Se Exercise Decres Timers	Close or open the shade by pressing the "Arrows" or Stop icon or scrolling the Gold line to the percentage required.	From the device window if you select "Settings" icon you can see all the motors device settings and the device health information.	Top left corner, there is a battery icon – This icon has 4 levels. Full, Medium, Iow empty.

DEVICE SIGNAL / HEALTH INFORMATION:

SIGNAL EXCELLENT	SIGNAL GOOD	SIGNAL AVERAGE	SIGNAL POOR
S:11 ≤ NI < C Site ← Back Living blackout 3 (\\) SigNAL Excellent	5.11 vt N ♥ 𝔅 / 56% ← Back Living blockout 3 SIGNAL-GOOD	5:11 III III III IIII IIII IIII ← Back Kida room Blind IIIIII SIGNAL-AVERAGE	St11 문 방 시작자네 55%# 수 Back Office room Blind () III) SIGNAL-POOR
	×	× *	*
 ● ● 	• • •	• • •	۰ ا
Shades with EXCELLENT Status Should perform as Normal without any issues	Shades with GOOD Status Should perform as Normal without any issues	Shades with AVERAGE Status may not perform as they should, if shades are unresponsive this could be the issue	Shades with POOR Status will be problematic and its required this is resolved.

HOW TO CREATE A ROOM:



Once the Shade is paired to the App. Click 'ROOMS' tab. Select the "Plus" icon to add a new room.

enter the desired room name.

click "OK".

the room.



STEP 9 -Add Shades to a Room	STEP 10 - Operate a Room
4.43 dellar curtains-bilinds	4.43 □ R ♦ ₹.ML S3% ← Back Kitchen Edit S7% ALL CLSE ALL S5% France Shude
Echen I device	
Home Favorites Scenes Timers	
Wait for the App to conclude the process of room set up.	Select the Room to operate All shades that have been added to the room at the same time. Open Close or

HOW TO CREATE A SCENE:

scene.

You can create scenes to set a treatment or group of treatments to specific heights or capture all the devices that you previously moved to the desired position even from the App or using a remote.

Custom Percentage

STEP 1 - Create a Scene	STEP 2 - Create a Scene	STEP 3 – Create a Scene	STEP 4 - Create a Scene
443 대 방송 등 전체의 52% a dollar curtains+blinds Edit	4-43 II II 이 아이지 52%을 Back ADD NEW SCENE Done	444 E 환호 옥성 al 52%을 ← Back ADD NEW SCENE Done	4:44 월 왕왕(11.52%) ← Back ADD NEW SCENE Done
ADD NEW SCENE	Scene Settings	Occess Settings	Scene Settings
	SCENE NAME Scene 1 >	SCI 1>	SCENE NAME Morning >
	SCENE PICTURE	SCI Please enter a name.	SCENE PICTURE
	Device Betlings		Device Settings
	UPDATE SCENE DEVICES >	UP	UPDATE SCENE DEVICES >
	CAPTURE ALL DEVICES >	CA CANCEL OK >	CAPTURE ALL DEVICES >
Horre Favorites Domes Timers			
Select Scenes then, 'Add New Scene' to begin programming your desired	Select the 'SCENE NAME' to customize the name of your scene	Input your scene name.	Select 'SCENE PICTURE' to customize the icon for your scene





Your Scene can now be activated by pressing Go or Link that Scene to a Timer

Automatic scene creation Set all devices with the remote to desired position. Then use the "Capture All Devices" button to create a scene of all current shades are positions. Select "Done".

Note the Current positions of the shades and select Done to save that as a scene

PROGRAMMING TIMERS:

You can program timers to trigger the specific operation of your shades and scenes at your desired times throughout the day.



4:47 🖿

÷Ö:

Morning 1 Device 🕱 🕸 🕾 湖川 52% 🛢

STEP 5 - Create a Timer







choose the scene you wish

the timer to activate.

Select the appropriate icon for the Timer.

In the Scene list, add the scenes you wish to operate.

STEP 8 - Create a Timei

4:47 🖬		Ø	♦ ☜湖.⊪ 52% 🕯
🔶 Back AE	DD NE	W TIMER	Done
TIMER SETTINGS			
TIMER NAME			Wake up >
TIMER ICON			\$\$ >
CONNECTION SETTINGS			
SCENE			DEVICE
TIMER SCENE			Morning >
SCHEDULE SETTINGS			
\bigcirc			嶽
7			AM
MONDAY			
UESDAY			
WEDNESDAY			
THURSDAY			
FRIDAY			

Set the time you wish the timer to trigger shade control.



SUNSET + SUNRISE TIMERS:

STEP 1 – Create a Timer	STEP 2 - Create a Timer	STEP 3 - Create a Timer	STEP 4 – Create a Timer
4.45 III III 이 전 한 국가지네 52% 을 dollar curtains (blinds Edit ADD NEW TIMER	4.47 □ ■ ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	4.47 Im Im	4.47 대 전 4 옥 전체 45% 을 dollar curtains + blinds Edit ADD NEW TIMER
PAUSE TIMERS	SCENE DEVICE TIMER SCENE Morning >		PAUSE TIMERS Wake up Survise+0 M, Tu, W, Th, F, Sa, Su
	Sunrise + + 0 + Minutes		
	MONDAY TUESDAY		
	WEDNESDAY THURSDAY EDIDAY EDIDAY		
	SATURDAY		
Select "TIMERS" then "ADD NEW TIMER" to program your timer	Name Timer as required. Select Sunset/Sunrise Option, choose your icon	Select the Scene you would like to activate at Sunset/Sunrise. Select Done	Your Sunset timer has been created

HOW TO CREATE FAVORITE:



HOW TO ADJUST LIMITS:

STEP 1 – Adjust Limits	STEP 2 – Adjust Limits	STEP 3 - Setting Limits	STEP 4 – Setting Limits
5:11 % 41 € 51 55% ≜ ← Back Living blackout 3 IIII SIGNAL GOOD	4.43 III IV € ®otto al S1% II ← Back Shade Done	448 □ ® ♦ ♥ at at \$1% ▲ ← Back Shade Done Dense brings	4.48 II IV - 이 수 있고 11%을 TOP POSITION
<u>^</u>	DEVICE NAME Shade >	DEVICE NAME Shade >	\bigcirc
	DEVICE NAME Sindle 2	DEVICE ROOM Kitchen >	
		DEVICE TYPE	
	DEVICE HUB Living room Hub	DEVICE HUB	
	Diagnostic Information		
	DEVICE ADDRESS UOP	Adjust Device Limits	
	BATTERY TYPE D24	E top limit setting on this device? This is 4 will clear the top limit setting you have	
	DEVICE VOLTAGE 64%	saved previously	
	SIGNAL STRENGTH -53	S CANCEL OK 3	(~)
	STATUS Online	STATUS Online	
	Position Settings	Position Settings	
	TOP POSITION >	TOP POSITION >	
	BOTTOM POSITION >	BOTTOM POSITION >	Move your motor so that it is 100% open and press
 ● ● ● 	DELETE DEVICE	DELETE DEVICE	"Set Top Position"
Select Setting icon in the Top	Select Top or Bottom	Ensure you are connected to	Adjusting the Top Limit Press
Right to open the shade	Position of the Device as	the same Wifi that the Hub is	the arrows up or down to set
settings Page	desired	paired to	the desired position

STEP 5 - Setting Limits	STEP 6 - Setting Limits
4.48 III IV 을 있었네 51%을 TOP POSITION	4.49 日 D D D D D D D D D D D D D D D D D D
\$	
$\overline{\bigcirc}$	We're configuring your device
Move your motor so that it is 100% open and press "Set Top Position" SET TOP Position	Move your motor so that if is 100% open and press 'Set Top Position'
Once the desired limit has been set select the "SET TOP	The app will configure the new top position. Repeat for

been set select the "SET TOP POSIOTION"

HOW TO SHARE HUB:



Step for the Primary Account Holder / Hub

the Bottom Limit if required

HOW TO SHARE THE HUB:

STEP 2 - Join a Shared Hub	STEP 2 - Join a Shared Hub	STEP 2 – Join a Shared Hub
4.50 🖬 🖬 🕸 후 하라네 51%을 ← Back HUB TYPE	4:53 •App Stree ••• ••• ♥■> App Stree Shared Hubs	4:53 at 交■) ≪App Steen ≪ Back LOCATION SETTINGS Done
CONNECT TO NEW HUB	v2-RA-Pulse-1012190	NAME My Home >
CONNECT TO SHARED HUB		Hubs
		C 🗢 Living room Hub
		ADD NEW HUB
		CHANGE LOCATION IMAGE
		MAKE ACTIVE LOCATION
		DELETE LOCATION
Select Connect to Shared Hub	All the available shared Hub will now appear on a list. Select the Hub that you want to add	The Shared Hub will be added (note shared hubs will have a shared icon)

HUB LED BEHAVOUR

The light on your hub indicates a certain status. Below table indicates the colour of LED and what it means.

COLOUR	RESPONSE	STATUS
	Blue LED blinks one time a second:	Ready for Pairing
	Violet LED short blinks five times a second:	Firmware Updating
•	Blue and Red LED blinks for 3-5 Seconds	Pulse received configuration via the app while pairing

-	Blue LED is Solid	Connected to Internet (Paired)
	Orange LED 1 times per second 10 times	Factory Reset Button Pressed (Paperclip Needed)
	-Red LED short blinks four times a second: (On for 100ms and off for 150ms).	Network Disconnected ISP down or Bumped from Network
•	Red LED is solid	Hub not connected to Wifi (check within Range or if Bumped off Wifi)
	Green LED Solid (On for 100ms and off 100ms)	While Pressing P Button on Hub Clear Cache and Ready for Pairing
•	LED is Off	Hub is not connected to Power

UNDERSTANDING WIRELESS SIGNAL STRENGTH

If you have seen a Shade Offline pop-up message in the app, thinking about how you can go about resolving this. One common cause may be that the shade is simply out of range, in relation to the hub.

Within our advanced motors, we can record the Received Signal Strength. When the shade communicates with the hub it updates the last known Signal Strength (the raw value will be displayed in the settings menu for that device e.g., -76). If the Signal Strength value is between -50 to -81 the signal strength is excellent or good.

-60dB means it is in a good environment that has little interference while -95db means the signal needs is weak due to distance or interference.

We have made it easy for you to understand by ensuring the signal strength of the shade is shown in the device screen represented by one of these four categories: Excellent, Good, Average or Poor.

This indicator will also change colour based on the table below. These values will fluctuate slightly as the hub or motor's environment degrades or gets better. If the signal strength is Average and -90 you may find it can worsen depending on the environment.



App Screen	Icon	MEANING	STATUS
5.11 x K KI C. 55%		Battery Percentage Icon	3 Levels of Battery Full 100-76% Medium 75-38% Low 37-16% Empty 0-10% (Motor starts beeping)
TETR 4 DA U B - 4 Radi Kithen D ROUL FCC	Pop up Motor Offline Your metor appears to be offline. Try adjusting the % to see if the motor moves. If net, ensure your motor is connected to power and the hub is in range and try again OK HELP	Motor Offline Pop up reminder	The motor is offline, and the control device is not on the same network.
SIGNAL: POOR		Motor Offline	The motor is offline
12/47 4	SIGNAL: POOR	Greyed out Icons	Signal or Battery Icons being greyed out when the motor is offline, it displays the last known values but the motor is offline
\$11 # €1 # €Lining blackout 3 ●* Back Luning blackout 3 ● Biological	ø	AC Motor Type Icon	AC Powered Motor connected to continuous power
5.11 w €) ** 02 - 50 L # € Back Examp blockment 3 SS SS SS SS	С С	DC Motor Type Icon	DC Powered Motor connected to continuous power Full 100-70% Medium 69-11% Low 10% or less Note varying voltages may be displayed as above

Troubleshooting Information

Not all Networks are compatible with the Pulse 2 Hub.

INCOMPATIBLE NETWORKS - WIRED

Do not try pair the hub via the Ethernet Cable. Ethernet can be used to operate it day to day but not pairing.

INCOMPATIBLE NETWORKS - WIRELESS

- 2.4 GHz Networks only!
- The Pulse 2 Hub must be connected to a 2.4 GHzâ€⁻network.
- The Pulse 2 Hub CANNOT connect to a 5 GHz Network

THERE ARE 5 COMMON WIFI SETUPS NOTED BELOW:

9:41	⇒ II.	
Settings Wi-Fi		
Wi-Fi		
CHOOSE A NETWORK		
Wi-Fi Secure 2.4 Ghz	• ≎ (ì	 2.4 Ghz network (use this Network)
Wi-Fi Secure 5 Ghz	e 🗢 📋 🗕	 – 5 Ghz network (Do not use this network)
Wi-Fi Secure 2.4_5 Ghz	a 🗢 📋 –	- 2.4 and 5 Ghz Dual network (Caution: See tips below)
Wi-Fi Secure Corporate	a 🗢 📋 –	- Corporate network (Caution: See tips below)
Guest	≎ (ì -	- Guest Network (Do not use this network discovery is dis

5 GHz NETWORKS

The Automate Pulse2 Hub is not compatible with these networks. Turn OFF Autojoin to the 5 GHz network and 'Forget' that network. Connect to the 2.4 GHz network. (Only during the hub pairing process).

DUAL-BAND NETWORKS

A dual-band network means the 2.4 GHz network and 5GHz are combined into one. The phone will automatically switch between the 2.4 GHz and 5 GHz band. If the phone is connected to the 5 GHz band the hub pairing process will fail.

Resolution:

Option 1

You can temporarily disable the 5ghz band in the Modem or Router settings while pairing the hub. Your Internet Service provider can guide you through this process.

Option 2

If you move far enough away from your modem the phone should connect to the 2.4 GHz band, allowing the pairing process to go through. This may not always work, so ensure you know the location of the router and move as far away as possible. If pairing failure persists, proceed with Option 1.

Option 3

Disable or your modem or router, create a hotspot with another device, name the hotspot and password identical to your dual-band network. Pair the hub to the hotspot. Now turn your modem back on and turn the hotspot off. This will allow you to connect to the Dual WiFi Network.



Current Wi-Fi Network

Temporary Hotspot

MULTIPLE ACCESS POINTS

In larger homes or corporate environments, pairing the hub while multiple access points are active can be troublesome.

- Resolution:
 - Option 1

Disable the access points and pair to the modem only, re-enable the access points after pairing. Option 2

Disable or your modem or router, create a hotspot with another device, name the hotspot and password identical to your network. Pair the hub to the hotspot. Now turn your modem back on and turn the hotspot off. This will allow you to connect to your WIFI Network.

NETWORK SECURITY SETTINGS COULD BE INTERFERING WITH THE SETUP PROCESS.

Ensure you are NOT on the Guest network. Guest networks have discovery mode switch off and is troublesome

GUEST NETWORK.

Some companies or homes have network security settings more advanced than the typical homeowner. If you are setting up in this environment, please consult your network administrator. Ensure you remove firewall during the pairing process or create a DHCP reservation. This is a permanent IP address assignment that is reserved. Using the Mac ID listed in under the Hub info, create a DHCP reservation to ensure that every time your hubs connects to your router, it will be given the same address.

SMART MESH NETWORKS

Mesh networks are becoming more common, which means you have a central router with Wireless Access Points (WAPs) around the home⁻ Normally there are no issues, however on occasion it is required to deactivate all WAPs but the main router during the Pulse 2 pairing process.



For Mesh networks, you can often control the 2.4 GHz/5 GHz capabilities in the router app for your system and potentially disable access points if necessary. Ensure you find the manufactures instructions on how to do this, which will allow you to pair the hub. Then go ahead and return settings as normal

Common Mesh Systems:

- 1. Google Nest WIFI
- 2. Asus ZenWiFi AX (XT8)
- 3. Netgear Orbi
- 4. Netgear Orbi WiFi 6
- 5. Netgear Nighthawk MK63
- 6. Netgear Orbi AC1200
- 7. TP-Link Deco M5
- 8. Ubiquiti Amplifi HD
- 9. Linksys Velop

Shade Issues

UNDERSTANDING WIRELESS SIGNAL STRENGTH

This article will help you understand your signal strength and offer solutions on how to improve it.

If you have seen a pop-up message in the app, you may find yourself on this page, thinking about how you can go about resolving this. One common cause may be that the shade is simply out of range, in relation to the hub.

To explain signal strength in simple terms, talking to a friend at 50db in a library will mean your friend will have no problem hearing you even if he/she is serval feet away. However, talking to your friend at the same noise level in a sports arena may mean they won't hear you at all, and the sound won't travel that far. In order for your friend to hear you, you need to take away the noise (interference), stand closer or talk louder. This methodology can be applied to wireless devices; take the hub closer to the shade and remove the interference or boost the signal.

Within our advanced motors, we can record the Received Signal Strength. When the shade communicates with the hub it updates the last known Signal Strength (the raw value will be displayed in the settings menu for that device e.g., -76). If the Signal Strength value is between -50 to -81 the signal strength is excellent or good.

-60dB means it is in a good environment that has little interference while -95db means the signal needs is weak due to distance or interference.

We have made it easy for you to understand by ensuring the signal strength of the shade is shown in the device screen represented by one of these four categories: Excellent, Good, Average or Poor.

This indicator will also change colour based on the table below. These values will fluctuate slightly as the hub or motor's environment degrades or gets better. If the signal strength is Average and 90 you may find it can worsen depending on the environment.

some cases, shades with Poor signal strength may seem to operate just fine, but it may not always report an accurate position due to a poor signal.

Shades higher than 97 are known to be inoperable and should be addressed.

So now that you understand what this means, what contributes to low signal strength you ask?

Interference or low signal can be attributed to the following.

- 1. Physical obstructions in the home like concrete floors and walls
- 2. Metal infrastructure in home that absorbs the signal
- 3. Competing systems on the same radio frequency
- 4. Mirrors and (Windows Made from Low-E glass)
- 5. Baby monitors, Alarms, and doorbells
- 6. Other home appliances and devices.

SO, HOW DO YOU MAKE THE HUB OR SHADES PERFORM BETTER?

You have two options; you can move the hub closer but remember that can impact other shades, so before we do that let's adjust / check the antenna on the shade itself.

ADJUSTING THE MOTOR ANTENNA

The Automate Pulse2 Hub is not compatible with these networks. Turn OFF Autojoin to the 5 GHz network and 'Forget' that network. Connect to the 2.4 GHz network. (Only during the hub pairing process).

Our motors can send and receive signals, it may be the hub sends the signal without any issues, but it may be when the motor sends the hub a signal, it gets lost.

Adjusting the antenna on the motor will certainly help, and we found even a minor adjustment can improve or degrade the strength by 25%.

Some motors allow you to wrap the antenna around the head of the motor, in which you can still keep it wrapped but you may need to slightly expose the antenna. See some illustrations and tips on how this can be done.

NOTE: In some instances, the antenna may get caught up in the fabric, so ensure it is free when moving the shade up and down.

QUESTION: I'VE ADJUSTED THE ANTENNA AND IT'S IMPROVED, BUT IT'S STILL NOT SATISFACTORY.

MOVE THE HUB

The simple thing to do is invest in a second or even a third hub, allowing the system to operate as one.

But before you invest in a second hub, let's try some of the options listed below.

In some cases, moving the hub improves some shades but degrades others. After you adjusted or tried any of these options, be sure you check the signal strength of all the shades, as it may have improved one but degrade another. Tip: Connect the hub into a power bank that allows you to place the hub anywhere while testing.

Tips	Potential Result
Always deploy the hub in a horizontal position. The hub antenna was designed to have a	could add +/- 5- 15% strength
better performance to spread the signal when the hub is placed horizontally.	
Ensure the hub is in the open environment and not covered	could add +/- 5- 15% strength
Simply rotating the hub 90 degrees while still flat on the surface could have a small impact and make the difference required.	could add +/- 2- 5% strength
Move the hub a foot or two higher and check again. If the hub is too high, maybe move it lower. We recommend placing the hub no lower than 20 inches or 50cm from the floor. You may want to try a few options here and test the performance.	could add +/- 10- 20% strength
Then more drastic things you can do is move the hub closer to the affected shade. Often problematic shades (a lot of interference) need to be a lot closer than others. Move the hub and check the affected shade to see if the performance has improved.	could add +/- 10- 20% strength
Check the path of the signal from the hub to check the motor. If there are any items made of metal e.g., TV or microwaves or even an aquarium), try to move the hub to avoid these paths	could add +/- 2- 5% strength

REPEATERS

Repeaters are great if you have 1 or 2 problematic shades, they will assist to boost the signal. However, when there are more than 2 problematic shades, and you tried all of the above with no success, need to install a second hub.

In some rare cases, it's found repeaters degrade the overall performance as it makes the signal path of some shades longer and creates additional unnecessary interference.

Tips

- Change the orientation of the repeater. Some environments require you to point the repeater vertically while others need horizontal orientations.
- Try putting the repeaters in other rooms
- Never use more than 2 repeaters per home.

CHARGE YOUR MOTOR

If you see the low battery icon, it may mean it is time to charge your motor. A depleted battery may also impact the signal strength, so ensure your shades are fully charged.

Hub Offline Assistance

Your hub should always be connected to the internet.

• A blinking red light means there is no internet connection. This can happen when your Internet Service Provider (ISP) has an interruption of service. Check other internet devices connected to your Wifi network. If they have lost internet access as well, then contact your ISP. Sometimes a simple power cycle of your router can fix this issue for all devices on your network.

• If the Red light is solid, it means the hub is not able to detect the Wifi network it was configured to. This often happens because the hub is placed too far away from your Wifi router. Try reconnecting your hub closer to your Wifi router with as few obstructions as possible. Be mindful that moving your hub can reduce the signal strength to some of your paired shades. RF repeaters or an additional hub may be required if you notice reduced performance from your shades after moving your hub.

• No light illuminated on your hub means the hub is not getting adequate power. Ensure you are powering the hub with the included Micro USB cable and power brick. Ensure the hub is connected to a power outlet in your home and not devices that could provide intermittent power like computers or televisions. Test the power outlet with a different electrical device to ensure the outlet is providing adequate power. Certain router configurations can interfere with the hub's internet connection. These include:

Router IP limits. Some Wifi routers limit the number of devices that may be connected to it at one time. Check your router settings. You can create a permanent DHCP reservation to ensure your hub never gets kicked off your router due to limits. Review your router's manual or contact their support for more info.
Newly placed Firewalls or other security measures can block the hub from properly connecting to the internet. Try whitelisting your hub's IP address within your router settings and see if the behaviour improves.

Review your router's manual or contact their support for more info.
If your hub is connected to your Wifi router via an ethernet cable, ensure you have a solid connection. Try connecting to a different ethernet port on your Wifi router if available. If you are connecting your hub to a

third-party integration (BEMO, Control4) via ethernet, ensure that third-party device is connected to your router and provides internet access via its ethernet port. Be aware that hub pairing via an ethernet connection is not currently supported.

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.

Caution: 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.

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.

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.

To satisfy FCC&IC RF exposure requirements, a separation distance of 20cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.

Les antennes installées doivent être situées de facon à ce que la population ne puisse y être exposée à une distance de moin de 20 cm. Installer les antennes de facon à ce que le personnel ne puisse approcher à 20 cm ou moins de la position centrale de l'antenne.

Limited by local law regulations, version for North America does not have region selection option.

For any further questions or support please contact our Customer Tech Phone Support on 03 9355 0100, Monday - Friday 8.30am - 5pm, to assist you with the Pulse Hub, app and voice control setup.