

BG Electrical WP22/HC WP Double Smart Weatherproof Socket Installation Guide

Home » BG Electrical » BG Electrical WP22/HC WP Double Smart Weatherproof Socket Installation Guide 🖺





Smart Weatherproof Socket Installation Guide

Control your Power by:



- Control Power Anywhere
- On/Off Power Control
- Timer & Scheduling

Installation Advice – Important

Contents

- 1 Safety Instructions
- 2 Building Regulations Advice
- 3 Installation Instructions
- **4 Safety Warning**
- **5 Product Overview**
- 6 Install The BG Home App
- **7 Account Creation**
- 8 Power Up Your Socket
- 9 Connecting Additional Smart

Devices

- 10 Device Menu Screen
- 11 Technical Information
- 12 Insulation Testing
- 13 Care
- 14 Batch Code Explanation
- 15 Address/Helpline
- **16 Environmental Protection**
- 17 Documents / Resources
- **18 Related Posts**

Safety Instructions

- An outdoor location should be chosen ensuring adequate access to a mains supply circuit. The circuit MUST be protected by an appropriate fuse, circuit breaker, or RCD (Residual Current Device) in accordance with current IET wiring regulations.
- 2. Where conduit is used for cable runs, water condensation MUST be prevented from collecting inside the unit & conduit. Drain holes MUST be drilled out (see Installation Instructions).
- 3. If a metal conduit is used, earth continuity across the conduit must be maintained using appropriate connections (not supplied). An earth terminal in the rear box is provided as required. An earth connection from the supply circuit MUST be made to the earth terminal of the socket.
- 4. Where outdoor cable runs occur, ensure cable recommended for outdoor installations is used. In general, rubber insulated cable & plastic M20 cable glands can be used. Alternatively, standard flat PVC twin & earth mains cable inside 20mm plastic or metal conduit may be used. Where necessary, SWA (Steel Wire Armoured) cable with metal cable glands should be used.
 - The outdoor use of unprotected flat PVC insulated cable is NOT recommended, as this poses a potential risk of electric shock.
- 5. To ensure continued safe & proper weatherproof protection, the unit MUST NOT be left with the cover raised open or the catch left unlocked. Unused cable entries MUST have had blank plugs fitted.

Building Regulations Advice

As of 1 January 2005, any electrical work done in domestic, fixed wiring installations in England and Wales will have to follow new rules & changes to the Building Regulations Part P. These rules have been introduced to help reduce the number of deaths, injuries, and fires caused by faulty installations.

The installation work may be carried out by anyone providing it is in accordance with the Regulation standards. Certain electrical work (non-notifiable or minor work) may be carried out without having to use a registered electrician or notify Local Authority Building Control, such as:

- replacing any electrical fitting (for example, socket outlets, light fittings, control switches)
- adding fused spurs, sockets, or lights to an existing circuit (but not in a kitchen, bathroom, or outdoors)
- · any repair or maintenance work

For minor work done by a non-qualified electrician, it is highly recommended it be checked by a qualified electrician to ensure it is safe.

For all other work (notifiable or major work) a Building Regulations application is required & it must be checked to make sure it is safe.

This may be done by either an electrician who is part of a competent person's self-certification scheme, or by notifying the Local Authority Building Control Department who will make required arrangements.

An application must be made to the Local Authority before commencing work such as:

- · adding a new circuit
- adding/altering any circuit in a room with water (kitchen, bathroom, etc)
- adding/altering any circuit outdoors (outdoor sockets, lights, etc)

Where work is done by a qualified electrician, they will be responsible for checking the work, & the Local Authority does not need to be notified.

Where a qualified electrician or Local Authority is responsible for checking the work, they will provide a certificate or notice to confirm that the installation is tested & safe to use.

IT IS RECOMMENDED TO USE A QUALIFIED ELECTRICIAN

If there is any doubt whether electrical work needs notification of the Local Authority, they should be contacted first for advice.

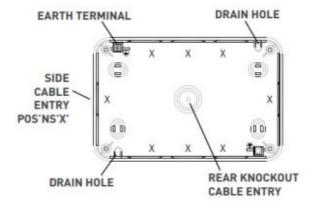
Installation Instructions

ENSURE SAFETY INSTRUCTIONS HAVE BEEN READ FIRST

The rear box has multiple cable entry positions on the sides & one rear knockout cable entry. Two drain hole positions are provided in relation to cable entry positions as shown. Note position of Earth terminal.

Before installation ensure the socket location has adequate

WiFi coverage.



- 1. The unit should be mounted on a clean, rigid vertical surface suitable for screw-type fixings. The surface should be reasonably flat as unevenness could cause product damage or affect operation.
- 2. Remove fixing screws & remove the front assembly from the rear box. (If front assembly is fitted to base)

3. For cable entry, decide if the conduit is being used & entry positions.

For side, top or rear entry the LOWERMOST drain hole position MUST be drilled out using a 5mm drill. ONLY ONE drain hole position must be drilled.

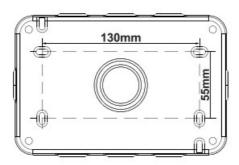
For bottom entry, a drain hole MUST NOT be drilled in the rear box, but a drain hole MUST be drilled at the lowermost point of a conduit run.

For rear entry, cut or drill out rear knock-out. For extra sealing protection, a channel around knock-out is provided to accept a bead of sealant (not supplied) when fixing to the mounting surface.

NOTE

The drilling out of a drain hole or removing rear knock-out will reduce the IP rating of the product.

4. Mount the rear box using No.8 screws in all four, or at least two diagonal positions on fixing centers shown. The fixing holes are slotted to enable some rotation adjustment if required. Fit supplied bungs overall used fixing screw positions to seal aperture recesses.



Safety Warning

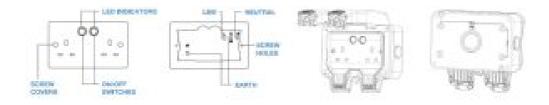
For your safety, this product must be installed in accordance with local Building Regulations. If in any doubt, or where required by the law, consult a competent person who is registered with an electrical self-certification scheme. Further information is available online or from your Local Authority.

Please read carefully and use in accordance with these safety wiring instructions. Before commencing any electrical work ensure supply is switched off at the mains, either by switching off the consumer unit or by removing the appropriate fuse. Wiring should be in accordance with the latest edition of IET regulations (BS 7671). To prevent fire hazards always use cable of the correct rating, size & type for the application.

Any bare earth wires must be covered with the appropriate green/yellow sleeving.

WARNING: Do not exceed the load rating of this device as stated on the rear of the product. If in doubt always consult a competent electrician.

Product Overview



The enclosure is IP66 rated in use, which means when the front cover is closed the seal construction provides protection from direct strong jets of water and the ingress of dust.

Smart Socket Setup Instructions

Install The BG Home App







Account Creation

Follow the on-screen advice to set up an initial account. If you have a BG Home account already skip to "Add Device".

Power Up Your Socket

On the App select 'Add device'.

Ensure that your Smart Socket is connected to the power supply as per the 'Installation Instructions'. After the initial power-up, both switches LED indicators will illuminate **RED** and start to blink and the socket will be ready for setup.

Press and hold button A for 5 seconds. The socket will be then entered Wi-Fi configuration mode and the indicator illuminated **RED flashing quickly.**

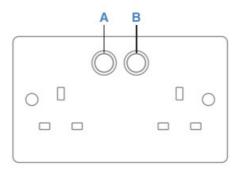
Follow the on-screen instructions to set up your device. Please make sure your phone is connected to 2.4GHz WiFi (not 5GHz) so your device can be discovered and set up successfully.

Once set up your mobile device will indicate a successful connection and the Red indicator on the socket will turn off.



You can now plug in the device you would like to control.

If these setup procedures fail, follow the "AP Config" setup and follow the step-by-step instructions in the App.



Connecting Additional Smart Devices

To connect additional BG Home Smart Devices, please follow the steps below:

- 1. Connect and power up the device.
- 2. Press and hold the power button until the RED LED flashes quickly.
- 3. Go to the BG Home app and 'Add Device'.
- 4. Once found and connected name the device accordingly.

Repeat for all additional BG Home Smart Devices.

- 5. Make cable entry into the rear box as required. Only remove blank plugs for positions used. Ensure adequate excess lengths of cable for connection to the socket. Install & seal all cable glands & conduit to manufacturer's instructions.
- 6. Offer upfront assembly to rear box to determine final lengths of cables & cut to suit. Strip outer insulation as required & then trim insulation on individual wires 10-12mm to expose conductor ends.

7. Connect the wires to the correct socket rear terminals. The socket terminals are color-coded for easier reference:

Connect LIVE wire to BROWN LIVE (L) terminal

Connect the NEUTRAL wire to BLUE NEUTRAL (N) terminal

Connect EARTH wire to GREEN/YELLOW (E) terminal

Note – the colors of the wires will be dependent on the type of cable used.

- 8. All earth connections MUST be made & continuity maintained. Note the socket has two linked earth terminals but only one needs to be used for this installation.
- 9. Where any earth conductor is a bare wire, it MUST be sleeved with green/yellow sleeving.
- 10. Ensure all terminal screws are tight & all wires are neatly routed & not unduly stretched or pinched.
- 11. After wiring socket, refit front assembly onto the rear box using fixing screws -DO NOT OVERTIGHTEN.
- 12. Fit screw covers to complete installation.
- 13. Switch power back on, check socket is working & ensure cover & catch operate correctly. The product is now ready to use see Set-Up Instructions.
- 14. For security and to prevent unwanted tampering with the socket, a lug feature with a 6mm hole is provided to accept a padlock or similar locking security device (not supplied).



Setup Advice & How-To Guides visit www.bgelectrical.uk/smart for additional support.

Power Control

Power control at each socket can be manual or 'smart'

The power button will illuminate **BLUE** for ON.

Indicator Brightness Control

The intensity of the power indicators can be adjusted. Press and hold button B for 5 seconds. The indicator will illuminate BLUE and it will enter the brightness adjustment mode. When the brightness has reached the desired level release the button.

Getting the Most out of your BG Home Sockets

Smart sockets do more than enable you to turn sockets on and off with an App – you can set timers, configure scenes set a parental lock, control these with your voice, and sync up with other smart devices in your home using IFTTT.

Device Menu Screen

Setting Timers

Set up timers so your device will turn on and off at specific times. Save energy by turning sockets off whilst you're at work, turn the lamp on or off at a certain time of day, or set the slow cooker to come on at lunchtime so your food is ready to eat when you get home!

Set a Delay

Set a delay time for your sockets to turn on or off after a set length of time. Ideal for sockets where you plug-in

devices like hair straighteners or heaters for added safety, and for charging your mobile phone so this turns off once it has reached a full charge.

Creating Scenes

You can add many different scenes to suit your lifestyle to further automate your sockets. You may want a number of sockets to turn on or off together without having to operate them all independently.

You could set a night-time scene so all lamps turn off and your bedside socket turns on ready to charge your phone, create a 'goodbye' scene for when the house is empty or a 'welcome home' scene so everything is just how you want it when you get home.

Go to the 'Scenes' menu on the bottom of the Home screen, select + from the top left corner of the scenes screen, and create your custom scene.

Manage Homes

If you have more than one property with smart sockets installed, be it home or office, you can create a separate 'home' for each of these and manage these through the 'Me' menu. Other homes that you have been invited to will also appear on this menu.

You can switch between properties in the BG Home App control screen by clicking on the home name at the top of the screen and switching to the home you want to manage.

Random Function

Turn lamps on and off at random times to imitate home occupancy when you're away for added security.

Invite others to join your home

You may want other members of your household to be able to operate sockets with their own phone or tablet. No problem! You can invite a new member from the BG App Home screen by pressing the + icon at the top of the screen.

Set a Parental Lock

The parental lock allows you to de-activate the active buttons so these cannot be turned on or off at the wall, and prevent members that you have invited within the app from turning sockets on or off, or changing any of your set timers or scenes. This is ideal for sockets which you want to behave in a routine way, and to prevent children from turning devices on and off when you don't want them to.

To turn on the parental lock, select 'function set' from the ... menu, and toggle the parental lock on or off as required.

Technical Information

Voltage: 220-240V ac Frequency: 50/60Hz Max Power: 13A 3,120W

Wire IEEE Standard: Wi-Fi 2.4GHz b/g/n

Terminal capacity: 3 x 2.5mm² 3 x 4mm² 2 x 6.0mm²

Insulation Testing

This socket outlet is designed to withstand insulation resistance testing at 500V as defined by BS1363-2.

- Perform insulation test between Line & Neutral at 250V.
- 500V test may be performed between Line & Earth, Neutral & Earth.

Or,

• Disconnect all Neutral connections in the socket and connect into a terminal block before replacing the socket prior to the test.

CEUK DECLARATION OF CONFORMITY

Product

Product name: SMART WP DOUBLE SOCKET

Product model: WP22/HC

• Batch number range: 21W01 – 23W01

Name and address of the manufacturer or his authorized representative:

Luceco PLC Stafford Park 1 Telford TF3 3BD ENGLAND **(EU) Luceco SE**C/ Bobinadora 1-5
08302 Mataró
SPAIN

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The object of the declaration described above is in conformity with the relevant Union harmonization legislation:

2014 /53/

EU

Radio Equipment Directive

Directive RoHS Restriction of the use of certain hazardous substances in electrical and electronic equipment

/65/ EC

References to the relevant harmonized standards used or references to the other technical specifications in rel ation to which conformity is declared:

BS 1363-2:2016+A1:2018

EN 300 328 V2.1.1

Draft EN 301 489-1 V2.2.0

Draft EN 301 489-17 V3.2.0 EN50385:2002

Zeero. A

Signed for and on behalf of Name: David Cleaver

Position: Senior Product Manager [date of issue 01/06/2021]

Signature:



If you're an iOS device user, you can control your devices using your iPhone, iPad or Apple Watch.

To control an individual device:

- 1. Select the device from the home screen.
- 2. Press on the ... menu in the top right corner and select 'General'.
- 3. Select 'Add to Siri' and create your Siri shortcut.

Add a scene to make a number of devices change state with one instruction. You will need to create your scene before adding this to Siri.

- 1. Select 'scenes' at the bottom of the home screen.
- 2. Select 'Add to Siri'.
- 3. Choose a pre-configured scene and enter the custom phrase you want to use to activate the scene.



If you're new to Echo, it's a super-smart speaker from Amazon that responds to your voice.

Once you've bought Amazon Echo and downloaded the BG Home App, you'll just need to enable it...

1. Enable the BG Home App

In your Alexa app, tap Skills in the menu and search for BG Home. Tap Enable.

2. Link Account

Enter your BG Home App username and password and follow the onscreen instructions.

3. Talk to Alexa

Now the fun part. Ask Alexa to control your BG Smart Home device.



Now you can use Google's voice-activated speaker to control your Smart Home sockets and adaptors. With Google Assistant, you can turn on your lights without pressing a button!

1. Setup

Start by getting the Google Home app and setting up your Google Home if you have not done this already.

2. Add BG Smart Home Action

In the Google Home app tap the menu icon and select Home Control. Then tap the + button to see a list of Actions tapping BG Home to select the Action.

3. Link your BG Home Account

Now follow the in-app instructions to link your BG Home App account. Once complete you'll be able to say 'Ok Google, turn my lamp on.



IFTTT helps you connect all of your different apps and devices. When you sign up for a free account, you can turn on Applets that help your apps and devices work together to do specific things they couldn't do otherwise. Set up widgets, to turn devices on and off without the need to open the App, turn devices on or off at sunrise and sunset, and use geo-location to turn devices on or off as you approach or leave home.

You can also use IFTTT to synchronize your sockets with smart home devices from other companies, for example, you could set a radio plugged into your smart socket to turn off if your Ring doorbell is pressed, or turn on lamps when you unlock your smart lock that is connected with Samsung smart things – The possibilities are endless!

Care

During the life of the product, any cleaning should only be carried out with a damp cloth using a mild solution of detergent & warm water.

DO NOT USE solvent-based cleaners as these may cause damage. It is recommended to ONLY clean the external surfaces with the cover closed. DO NOT get any water on the socket if the cover is open.

Batch Code Explanation

yyWxx: Manufacturing date code; year of manufacturing (yy) and week of manufacturing (Wxx)

Address/Helpline

Luceco PLC
Stafford Park 1
Telford TF3 3BD
ENGLAND

Luceco PLC
Stafford Park 1
Telford TF3 3BD
ENGLAND

ENGLAND

If you need further technical assistance you can get in touch with our Technical Helpline on: +44 (0)3300 249 279 technical.support@bgelectrical.co.uk

Environmental Protection



This symbol is known as the "Crossed-out Wheelie Bin Symbol". When this symbol is marked on a product or battery, it means that it should not be disposed of with your general household waste. Some chemicals contained within electrical/electronic products or batteries can be harmful to health and the environment. Only dispose of electrical/electronic/battery items in separate collection schemes, which cater for the recovery and recycling of materials contained within. Your co-operation is vital to ensure

the success of these schemes and for the protection of the environment.

Documents / Resources



BG Electrical WP22/HC WP Double Smart Weatherproof Socket [pdf] Installation Guide WP22 HC, WP Double Smart Weatherproof Socket

Manuals+