



Technical Data

Weatherproof 13A Socket Outlet with WiFi Extender

Brief product description:

IP rated accessories designed to protect against water and dust ingress in the most arduous of conditions.
Expand your WiFi coverage to your outdoor living space

Features:

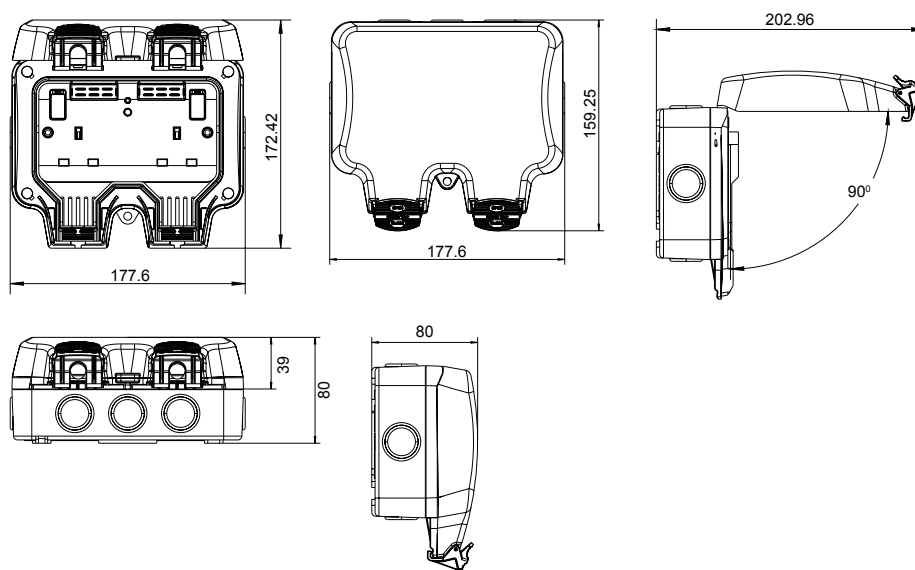
- Works with all wireless broadband routers
- Easy to install and setup with one touch WPS
- N300 Wi-Fi Technology - Up to 300Mbps data transfer speed. Single band (2.4Ghz)
- Perfect for streaming music and videos or playing online games
- IP66 Rated with plug in use, cover sealed

Product Images



WP22WR


Line Diagrams



WP22WR

Weatherproof 13A Socket Outlet with WiFi Extender

Technical Specifications

Standard(s)	BS1363 Part 2	
Rating	13 Amp	
	240 Volts ~	
	3120 Watts	
	50/60 Hz	
RoHS Directive	Yes	
CE	Yes	
Switch Type	Single Pole	
Terminal Capacity - L & N	3 x 2.5mm ² , 3 x 4.0mm ² & 2 x 6.0mm ²	

Packaging Information

Cat No.	Description	Packaging Type			Pack Quantity			Barcode		
		Product	Inner Box	Outer Box	Each	Inner Box	Outer Box	Individual	Inner Box	Outer Box
WP22WR-01	Double, 13A, Switched with WiFi Extender	White Box	n/a	Shipping Carton	1	n/a	10	5050765181105	/	5050765194648

Weights & Dimensions

Cat No.	Description	Dimension (W x L x H) cm			Weight (kg)			CMB (m ³)	
		Product	Inner Box	Outer Box	Each	Inner Box	Outer Box	Outer Box	
WP22WR-01	Double, 13A, Switched with WiFi Extender	17.3 x 8.8 x 16.5	n/a	38.2 x 48.5 x 19.5	0.54	n/a	5.4	0.036	

Installation Information

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 IEE regulations (BS 7671). To prevent fire hazard 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. Any decorative products MUST have an earth connection between the front-plate and back box.

Warning do not exceed the load rating of this device as stated on rear of the product.

Maintenance

To keep the finish of this product, wipe over with a soft dry cloth periodically.

Environmental Protection

Electrical products should not be disposed of with your general household waste. Some chemicals contained within electrical products can be harmful to health and the environment. Only dispose of the items in separate collection schemes which can cater for recovery and recycling of materials contained within. Your co-operation is vital to ensure the protection of the environment.

Technical Helpline: 03300 249 279

If in doubt consult a competent electrician.

Quick Installation Guide

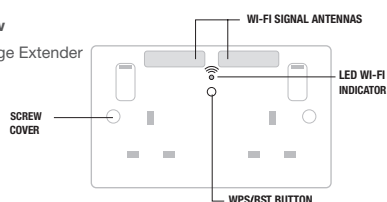
Positioning your Wi-Fi socket

Your Wi-Fi socket should be positioned half way between your router and the Wi-Fi dead-zone. Use the signal strength indicator on your mobile device to determine the mid-signal point

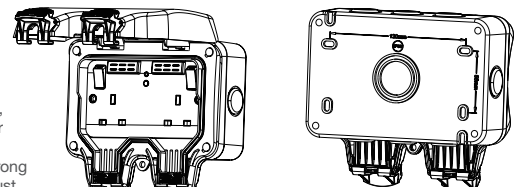


Product overview

Wi-Fi Socket Range Extender



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.



Weatherproof 13A Socket Outlet with WiFi Extender

Installation Information

Safety instructions - important

Please read 'CHANGES TO BUILDING REGULATIONS'

- 1) An outdoor location should be chosen ensuring adequate access to a mains supply circuit. The circuit MUST be protected by an appropriate fuse, arcuH breaker or RCO (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 metal conduit is used, earth continuity across the conduit must be maintained using appropriate connections (not sullied). An earth terminal in the Rear Box is provided as required. An earth connection from supply circuit MUST be made to earth terminal of 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, anyone receives a potentially fatal electric shock.
- 5) To ensure continued safe & proper weatherproof operation, the unit MUST not be left with the Cover raised open or the Catch left unlocked. Unused cable entries MUST have Blank Plugs fitted.

Changes to building regulations - important

As from 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 is 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 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, & Local Authority does not need notification.

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.

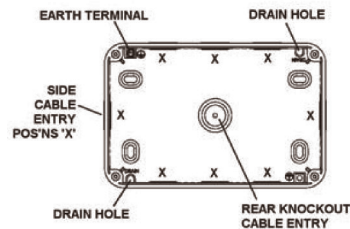
IT IS RECOMMENDED TO USE A QUALIFIED ELECTRICIAN

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 sides & one rear knock-out cable entry. Two drain hole positions are provided in relation to cable entry positions as shown. Note position of Earth terminal.



1. The unit should be mounted on a clean, rigid vertical surface suitable to accept screw fixings. Surface should be reasonably flat as unevenness could cause product damage or affect operation.

2. Remove fixing screws & remove Front assembly from Rear Box. (If front assembly is fitted to base)

3. For cable entry, decide if 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 Rear Box, but a drain hole MUST be drilled at lowermost point of conduit run.

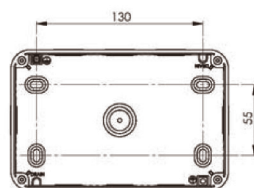
For rear entry, cut or drill out rear knock-out. For extra sealing protection, a channel around knock-out is provided to accept a bead of sealant (not supplied) when fixing to mounting surface.

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 centres shown. The fixing holes are slotted to enable some rotation adjustment if required. Fit supplied Bung over all used fixing screw positions to seal aperture recesses

5. Make cable entry into Rear Box as required. Only remove Blank Plugs for positions used. Ensure adequate excess lengths of cable for connection to socket. Install & seal all cable glands & conduit to manufacturer's instructions.



6. Offer up Front 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 colour coded for easier reference:-

Connect LIVE wire to BROWN LIVE (L) terminal

Connect NEUTRAL wire to BLUE NEUTRAL (N) terminal

Connect EARTH wire to GREEN/YELLOW (E) terminal

Note - the colours of the wires will be dependent on the type of cable used. See Wire Identification section for reference.

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.

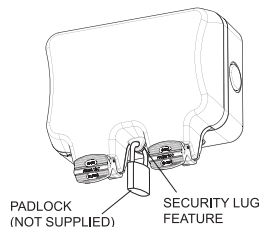
11. After wiring socket, refit Front Assembly onto Rear Box using fixing screws

-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 WiFi Set up Instructions, over the page.

14. For security to prevent unwanted tampering with Socket, a lug feature with a 6mm hole is provided to accept a padlock or similar locking security device (not supplied)



15. During life of 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 Cover closed. DO NOT get any water on Socket if Cover is open.

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Installation Information

Setup advice & how-to guides

Visit www.bgelectrical.uk/wifi for additional support.

Wi-Fi socket setup instructions

Ensure that your Wi-Fi socket is connected to the power supply as per 'Wiring instructions' (see reverse). After the initial power up the LED indicator will illuminate with a solid blue light. After a short period of time the indicator will then start to blink and the product will then be ready for set-up. Proceed with your preferred method of connection:

Wireless setup

There are three installation methods to connect to the Wi-Fi socket;

Web browser – Using your computer, smart phone or tablet's internet browser (Safari, Chrome, Firefox, Edge, Internet Explorer).

QR code – Scan the QR code to take you directly to the setup page.

WPS (Wi-Fi Protected Setup) – One touch setup, no configuration needed.

QR code setup



- On your smartphone or tablet, connect to a new Wi-Fi network called "Wi-Fi Socket" (no password is required).
*Note: if the "Wi-Fi Socket" network is not showing, please reset the Wi-Fi socket.
- Scan the QR code.



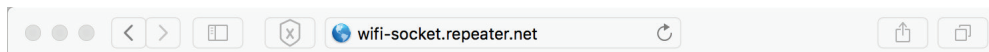
- Select the Wi-Fi network to be extended.
- Enter your Wi-Fi router password.
- Ensure the tick-box "Set the same SSID & Password" is ticked.
- This will change the "Wi-Fi Socket" network name to match your current router network name.
- Click 'Next'.
- *Note: Should you need to change the network encryption mode, choose from the drop-down menu.
- Default is WPA2-PSK. Refer to your router handbook for further details.
- Click 'Apply'.
- The Wi-Fi socket should show a solid blue LED, and is now ready to use.
- Your devices will connect using your existing Wi-Fi network name.

OR

Web browser setup



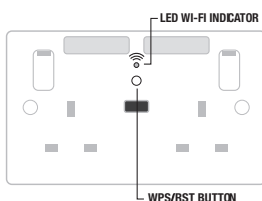
- Connect to a new Wi-Fi network called "Wi-Fi Socket". (no password is required)
*Note: if the "Wi-Fi Socket" network is not showing, please reset the Wi-Fi socket.
- Enter <http://WiFi-Socket.repeater.net> into your browser search bar.



- Select the Wi-Fi network to be extended.
- Enter your Wi-Fi router password.
- Ensure the tick-box "Set Local & Internet SSID as the same" is ticked. This will change "Wi-Fi Socket" network name to match your current router network name.
- Click 'Next'.
- *Note: Should you need to change the network encryption mode, choose from the drop-down menu.
- Default is WPA2-PSK. Refer to your router handbook for further details.
- Click 'Apply'.
- The Wi-Fi socket will show a solid blue LED, and is now ready to use.
- Your devices will connect using your existing Wi-Fi network name.

WPS (Wi-Fi protected) setup

- Press and hold the WPS button on your router for 5 seconds.
*Note: WPS connection may differ for each manufacturer, please refer to your router handbook for your specific WPS connection method.
- Press the WPS/RST button once on the Wi-Fi socket.
- The LED will blink orange whilst connecting to your router.
- Once connected, the LED will light solid blue.
- Your devices will connect using your existing Wi-Fi network name.



Resetting your Wi-Fi socket:

- Press and hold the WPS/RST button on the front of the Wi-Fi socket for 5 seconds.
- The LED will blink amber/blue and then extinguish.
- Wait for a blue blinking LED to return.
- Your Wi-Fi socket is now ready to setup.

Turning off the Wi-Fi function (holiday mode):

- Press the WPS/RST button 3 times to turn off the RF (Wi-Fi) signal.
- The LED will extinguish.
- To turn the functionality back on, press the WPS/RST button 3 times.
- The LED will show solid blue and Wi-Fi connectivity will be restored.
*Note: The 13A socket outlets work independently and are unaffected by holiday mode.

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Installation Information

WiFi Specifications

Setup

WPS - Wi-Fi Protected Setup® or via web browser

Wireless Band

2.4ghz Single Band

Wireless Specification

Wireless standards 2T2R 2.4GHz

IEEE 802.11n (up to 300Mbps)

IEEE 802.11g (up to 54Mbps)

IEEE 802.11b (up to 11Mbps)

Security

Wi-Fi Access password

Wi-Fi Protected Access®:

256-bit WPA -PSK

256-bit WPA2-PSK

256-bit WPA/WPA2-PSK

Minimum System Requirements

802.11 b/g/n 2.4GHz wireless router with broadband internet connection

Android 3.0, Android 4.X, IOS 5 or above

Windows® XP 32(SP3 or greater), Windows Vista® 32/64, or Windows 7 32/64, Windows 8 32/64, Windows 10 32/64; or Mac OS® X v10.5 or above

Internet Explorer® 10.0, Firefox® 20, Google Chrome™ 25, or Safari® 5.1

FAQ's

The "Wi-Fi Socket" network is not showing in my list of networks?

A: Please reset your Wi-Fi socket (Refer to the 'Resetting your Wi-Fi socket' section) then try again.

I can't see the login page after typing <http://WiFi.Socket.repeater.net> in the browser, or by scanning the QR code?

A1: Make sure your computer/phone/tablet is connected to the "Wi-Fi Socket" Wi-Fi network.

A2: Ensure your Wi-Fi socket is connected to the power and the blue LED indicator is lit. Once connected, reset the socket.

How do I reset the Wi-Fi socket?

A: Refer to the 'Resetting your Wi-Fi socket' section.

My router doesn't have a WPS button, what do I do?

A: Please use the 'Web browser' method to setup your Wi-Fi socket.