Smart Plug-In (LP40)

Lightwave

Installation

If you plan to install this product yourself, please follow the instructions carefully to ensure the product is installed correctly, if in any doubt please consult our technical team.

It is important to install this product in accordance with these instructions. Failure to do so may void your warranty. LightwaveRF Technology Ltd will not be held responsible for any loss or damage resulting from not correctly following the instruction manual.

You will need

⟷ BS1363 13A mains power outlet

⋀⋁ Your Link Plus and smart phone

In the box

▦ Lightwave Smart Plug-In

Overview

The Plug-in On/Off Socket is designed to plug into any standard 13A socket. It allows any connected appliance (up to 3000W) to be turned on and off using the Lightwave app (requires the Lightwave Link Plus).
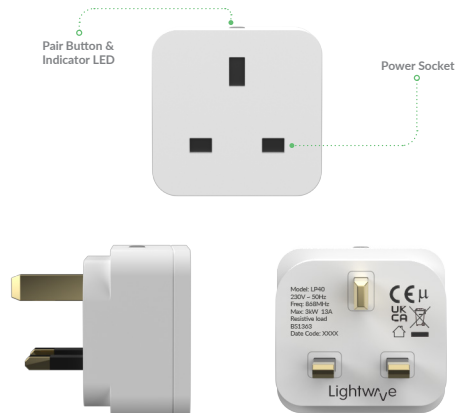
Applications

Using the Link Plus and Lightwave App, you can create custom automations for Lightwave devices. Automations provide a whole host of clever features, including timers, group actions, triggers and wireless 2-way switching. Find out more by exploring the Lightwave App.

Location

The Plug-in On/Off Socket is designed to plug into any standard 13A socket. It allows any connected appliance (up to 3000W) to be turned on and off using the Lightwave app (requires the Lightwave Link Plus).

Range

The LP40 smart plug-in should have an excellent communication range within a typical home, however, if you encounter any range issues, try to ensure that large metal objects or bodies of water (e.g. radiator) are not positioned in front of the socket or in between socket and the Lightwave Link Plus

Pair Button & Indicator LED

Power Socket

Model: LP40
230V ~ 50Hz
Freq: 868MHz
Max: 3kW 13A
Resistive load
BS1363
Date Code: XXXX

CE μ
UK CA

Lightwave

Specification

RF frequency:	Input rating:	Output rating:	Warranty:
868 MHz	230V	3000W	2 year standard warranty

Help video & further guidance

For additional guidance, and to watch a video that will help guide you through the installation process, please visit the support section on **www.lightwaverf.com.**

Environmentally friendly disposal

Old electrical appliances must not be disposed of together with residual waste, but have to be disposed of separately. The disposal at the communal collecting point via private persons is for free. The owner of old appliances is responsible to bring the appliances to these collecting points or to similar collection points. With this little personal effort, you contribute to recycle valuable raw materials and the treatment of toxic substances.

EU Declaration of Conformity

Product: Smart Plug-In
Model/Type: LP40
Manufacturer: LightwaveRF
Address: The Assay Office, 1 Moreton Street, Birmingham, B1 3AX

This declaration is issued under the sole responsibility of the LightwaveRF. The object of the declaration described above is in conformity with the relevant union harmonisation legislation.

Directive 2011/65/EU ROHS, Directive 2014/53/EU: (The Radio Equipment Directive)

Conformity is shown by compliance with the applicable requirements of the following documents:

Reference and date:
BS 1363-3:2016+A1:2018, EN 60669-1:2018, EN 9-2-1:2004+A1:2009+A12:2010, EN 50663:2017, EN 62479:2010, ETSI EN 301 489-1 V2.2.3 (2019-11), ETSI EN 301 489-3 V2.1.1 (2019-03), EN 55032:2015+A1:2020, EN 55035:2017+A11:2020, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021, ETSI EN 300 220-1 V3.1.1 (2017-02), ETSI EN 300 220-2 V3.2.1 (2018-06)

Signed for and on behalf of:
Place of Issue: Birmingham
Date of Issue: November 2022
Name: John Shermer
Position: CTO

Carefully follow the instructions in this section in order to install the Plug-In. For other advice, please contact our dedicated technical support team at www.lightwaverf.com

The easiest way to learn how to install the Lightwave Smart Plug-In is to watch our short installation video which is accessible at

www.lightwaverf.com/product-manuals

Locking the Plug-In

The Plug In can be 'locked' using the App so that the manual button will not operate it. If it is locked on, then the plug in will not turn off manually. A locked plug in is signified by a slow flashing magenta LED. To lock / unlock the plug in, press the 'lock' button on the Smartphone App. Clearing the memory will remove the lock.

Changing the indicator LED colour

The default colours of the indicator light on the plug in are blue for 'on' and red for 'off'. The colour of the LED can be changed using the Lightwave App. See the App for more details.

LED Indicator Lights

Follow the instructions to enter 'Linking mode', then follow the linking instructions to pair your device to your Link Plus. Ensure you follow the guidelines for optimum performance.

On

Linking mode

Linked

Error

Energy Monitoring

Built-in energy monitoring is ideal for checking all of the appliances around your home to identify how and when you can save energy through Lightwave automations. You can even get push notifications to your mobile phone if something gets unplugged or starts to pull too much power (like an open refrigerator door).

Receive weekly energy emails and access your Lightwave energy dashboard online to maximise the benefits of the LP40's energy monitoring capabilities.

How accurate is the reading from the energy monitor?

The discrepancy you will see is due to the rate limits we introduce in the way the system communicates. When on local mode, you will get updates up to every 15 seconds as the energy monitor transmits its information. However, we limit the data sent to the server depending on the current/total values in an effort to reduce unnecessary repeating data. This can result in the readings on the server being relatively out of date, but the values will be slight. Your "live" current use will be within 10% of the value shown when away, and the total use will be within 0.1kWh.

The total yesterday use will be the highest the total use yesterday reached when passed to the server. Similar to the previous paragraph, it is possible that it may be slightly out of sync, but the discrepancy will be very slight in this instance.

Automations

A home becomes a smart home when devices operate intelligently and autonomously. The LP40 can be setup to control lighting, power and heating throughout the home i.e Create moods and set different scenes (sequence of actions) with delays between each action. These can be created from the Link Plus app/web app and will store on the Link itself. A stable internet connection is required for the automation to run.

Types of automation:

• Timer
  When you would like a device to operate at a set time and on certain days, timers allow you to do this.
• Schedule
  A schedule is essentially an automation made up of lots of timers. It is recommended to use a schedule when you would like a device to operate certain times throughout the week and on specific days.
• If-Do
  This type of automation is the smartest as they work on a condition basis of another device. It is a requirement that if a physical device is operating as the trigger, it needs to communicate two-way as the Link Plus will need to know its status.
• Group
  This can be used to make multiple devices 'copy' each other. Useful for controlling many devices in the same location by only interacting with one of them.
• Do
  The most simple type of automation, which can be used to create moods/scenes. It works on-demand only, so requires execution via the Link Plus app or via Google Home or Alexa.

Linking

To be able to command the Plug-In, you will need to link it to the Link Plus.

Follow the in-app instructions which will explain how to link devices.

Plug the LightwaveRF Plug-In On/Off Socket into a standard 13A wall socket and ensure that the wall socket is turned on. The LED on the Plug-In will illuminate green to illustrate that there is power as the device configures.

On the Plug-In, Press and hold down the button on the side of the unit until the LED flashes blue and red alternately then release it. The Plug-In is now in linking mode.

Using the Lightwave app select the device the you want to link to (the App instructions will guide you through this). The LED on the Plug In will flash Blue to confirm that it is now linked to the App.

Unlinking the Plug-In (clear memory)

To unlink the plug in and clear the memory, enter linking mode by holding down the button until the LED flashes red. Release the button, then hold it for a second time until the LED flashes red to confirm that the memory has been cleared.

Firmware updates

Firmware updates are over-the-air software improvements that keep your device up to date as well as providing new features. Updates can be approved from the App before being implemented, and generally take 2-5 minutes. The LED will flash cyan in colour during an update. Please do not interrupt the process during this time.

Support

A permanently flashing red LED indicates that a software or hardware error has been encountered. Press the on/off button to reset the indicator LED. If the error light persists, please contact Lightwave support via www.lightwaverf.com/support.

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