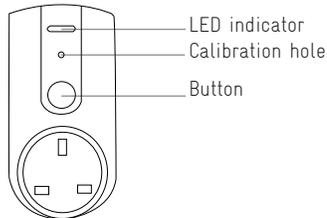# Optiplug instructions

Congratulations on your purchase of Optiplug, the intelligent socket that switches appliances on when you have electricity to spare.

Optiplug can be used for any appliance using electricity that doesn't need to be switched on manually (unlike most washing machines) and doesn't mind being interrupted.

Optiplug assumes you already have a Wattson Solar Plus or other Wattson that measures generated and used electricity. You will need to have its transmitter to hand.

LED indicator
Calibration hole

Button

1

1. Pair Optiplug with your transmitter.

As Optiplug gets its information from the transmitter, the first stage is to pair them.

- Power Optiplug by connecting it the mains (if powered on for the first time, Optiplug is ready to be paired, otherwise you need to ensure it is in automatic mode, see page 4).

- Hold down the Button for 6 seconds, until the red LED starts to blink.

- Within 60 seconds, hold down the transmitter button until its red LED is constant, bringing it into pairing mode.

- When successfully paired, the LED on the Optiplug will flash quickly 5 times and will then remain in pairing mode.

- Optiplug will keep searching for available pairing signals for 60 seconds, so more transmitters can be paired at this stage.

- After 60 seconds, Optiplug automatically exits pairing mode and the LED turns off.

- Confirm Optiplug is receiving information from the transmitter by checking both Optiplug and transmitter LEDs are flashing simultaneously.

Note. If pairing is made for a transmitter already paired with Optiplug, the LED will still flash to indicate successful pairing.

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To un-pair Optiplug from the transmitter:

- Press the Button four times quickly in succession.

- The LED will flash 10 times to confirm pairings with all transmitters have been cleared.

2. Calibrate with your appliance.

Once Optiplug is paired with your transmitter, it is ready to learn the power of your appliance so it can turn it on when there is enough surplus power and switch it off when there is no longer surplus energy available. The calibration process must be completed for Optiplug to be fully automatic.

- Plug the chosen appliance into Optiplug. Now switch on the appliance in the mode you intend to use it in (e.g. the two bar setting on a fan heater).

- Insert a pin, or equivalent, into the calibration hole. The appliance will turn on and the red LED will flash twice a second while Optiplug is calibrating.

- Calibration takes three minutes, after which the LED will stop flashing. DO NOT switch off the appliance during this time, as Optiplug is measuring the peak power.

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To change the appliance that is controlled by Optiplug, simply ensure calibration is performed every time.

Note. When in calibration mode, Optiplug cannot pair and does not respond to the transmitter's signals. If Optiplug is unplugged or power is lost, it will not reset or require new calibration.

3. Automatic mode.

Once Optiplug has been paired with a transmitter and calibrated with an appliance, it will automatically turn it on when there is enough surplus power; switching it off when there is no longer surplus energy available.

In automatic mode:

• The LED will light up when Optiplug is in operation.

• The LED flashes in time with the transmitter's.

• Optiplug can calibrate, pair, un-pair.

If Optiplug is not paired to a transmitter, it will remain in automatic mode unless it is changed to manual mode. If Optiplug cannot receive a signal from the transmitter, it will keep its current status until a new signal is received. The automatic function is subject to data being received.

Note. Optiplug is designed to optimise energy use and maximise savings so higher power appliances are given priority and will switch on quicker than lower power appliances when there is surplus electricity.

For example, a fan heater will switch on within a few seconds of surplus exceeding its calibrated power whereas a 100 watt lamp can take up to 30 seconds to turn on.

4. Manual mode.

The automatic mode can be disabled and Optiplug becomes a manual switch. To enable:

• Press and hold the Button until the LED comes on (it must be released before 5 seconds).

• Upon release, the unit will be in manual mode and will only respond to a Button press.

Note. If Optiplug is currently in operation, the LED does not change state.

In manual mode:

• The LED does not flash.

• The LED lights up when Optiplug is on.

• The LED is off when the Optiplug is off.

5. Switching modes

You can identify manual mode as pressing the Button will turn your appliance on or off. To revert to automatic mode, hold the Button down for longer than two seconds, until the LED turns on.

6. Support

For help and support with your Optiplug, please visit our HelpDesk at diykyoto.helpserve.com.

7. Technical Specifications

AC Power (50/60 Hz)	110V - 230V
Working Temperature (^{o}C)	-10 to 50
Radio Frequency	433 MHz
Max. Current	13 amps
Standby Power Consumption	<0.5 watts
Packaged Weight	157 g
Dimensions (cm)	L:12 W:6 D:8
Certifications	BS 1363-2, CE

We'd love to know how you are using Optiplug in your house. Please email us at info@energeno.com or tweet to @wattsonenergeno.

OPQS-ENG 1.1 02-13