

Smart Radiator Valve

Let's get started



Quick Start Guide
Model No. LW922

Before you start

You will need

- Radiator with adjustable thermostatic valve
- Flathead screwdriver
- Adjustable spanner
- Your Link Plus, smartphone and Lightwave Valve

Installing yourself?

Please note that all Lightwave products can be legally DIY installed in your own home; however, if in doubt, always consult a qualified electrician.

It is important to install this product in accordance with these instructions. Failure to do so may risk personal safety, could create a fire hazard and will also void your warranty.

If conducting an insulation resistance test, any hard-wired Lightwave devices must be disconnected from the mains, or damage to the unit may occur.

In the box



Radiator Valve

Specification

- RF frequency:** 868 MHz
- Batteries:** 2x 1.5v (AA)
- Warranty:** 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

Hints and tips

Get the best out of your install

Understanding radiator valves

To install the lightwave radiator valve, you need to replace your existing valve or 'TRV' head. TRV simply stands for thermostatic radiator valve. These are the adjustable valves that are fitted to most domestic radiators that automatically adjust the flow of water to maintain a constant temperature. You can usually adjust the temperature by turning the valve head. You can recognise if your radiator has a TRV by looking for a moveable valve head that usually has numbers or dashes to indicate its position.

How do I remove the existing valve?

The valve head is usually screwed onto the main valve and can be easily removed by hand or with the aid of an adjustable spanner if the thread is tight. Because you will only need to remove the movable head and not the main valve, you don't have worry about any water leaking from your radiator.

How does it work?

The Lightwave Radiator valve head works in a similar way to a normal valve head in that it pushes the pin of the main radiator valve up and down in order to open and close it. This controls the water flow to the radiator and hence the temperature.

Calibration

Once the Lightwave valve securely is in place, you can then insert the batteries. The device will calibrate for a minute or so, but don't worry as this is normal. A whirring noise means that the Lightwave valve head is adjusting the radiator valve position to regulate the temperature.



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.



EC Declaration of Conformity

Responsible Authority: LightwaveRF PLC, Innovation Campus Birmingham Faraday Wharf, Holt Street, Birmingham, B7 4BB
Tel: +44 (0)121 250 3625
Email: enquiries@lightwaverf.com

Model Number(s): LW922
Description: Radiator Valve
Directives this equipment complies with: 2006/95/EC, The Low Voltage Directive, N/ 2004/108/EEC, The Electromagnetic Compatibility Directive, 1999/5/EC R&TTE Directive, 93/68/EEC CE Marking Directive

Standards Applied in order to verify compliance

Safety: BS EN 60730-1: 2011
Health: R&TTE: EN 301 489-1 V1.9.2: (2011-09), EN 301 489-3 V1.4.1: (2002-08), EN 300 220-1 V2.1.1: 2006, EN 300 220-2 V2.1.2: 2007, EMC: EN 301 489-1 V1.9.2: (2011-09), EN 301 489-3 V1.4.1: (2002-08), EN 55022: 2010, EN 61000-3-2: 2006 +A1: 2009 +A2: 2009 Class A, EN 61000-3-3: 2008, EN61000-4-2: 2009, EN 61000-4-3: 2006 +A1: 2008 +A2: 2010, EN 61000-4-4: 2012, EN 61000-4-5: 2006, EN 61000-4-6: 2009, EN 61000-4-11: 2004

For and on behalf of LightwaveRF PLC

J Shermer, CTO

1 Install the Valve

The easiest way to learn how to install the Lightwave Valve is to watch our short installation video which is accessible at

www.lightwaverf.com/product-manuals

Carefully follow the instructions in this section in order to install the Lightwave Valve. Please remember that live electricity is dangerous. Do not take any risks. If in any doubt, consult a qualified professional. For other advice, please contact our dedicated technical support team on 0121 250 3625.

1.1 Removing the existing Radiator Valve

To attach the Lightwave Radiator Valve you will first need to ensure that you have a suitable thermostatic valve fitted to your radiator (such as the one pictured) and unscrew the existing valve head. This can usually be done by hand and does not require any special tools. An adjustable screw driver maybe useful if the valve head is tightly secured.

Note: Removing the existing valve head should not cause any water leaks as the main body of the valve remains sealed

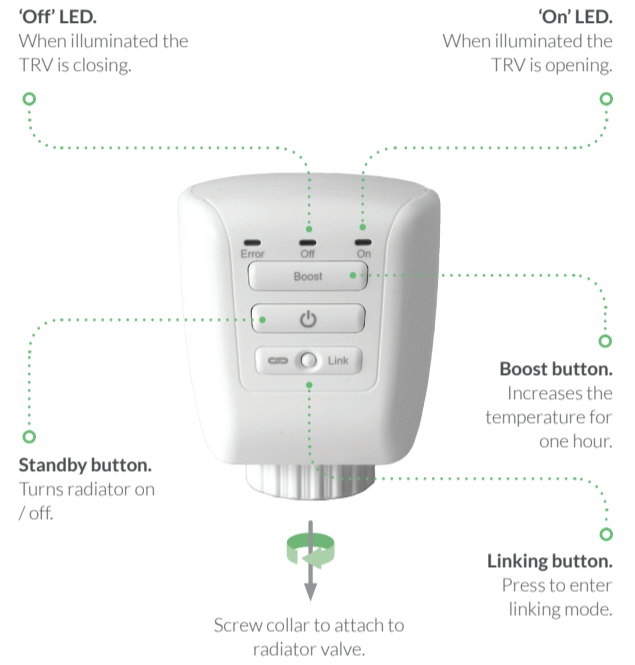
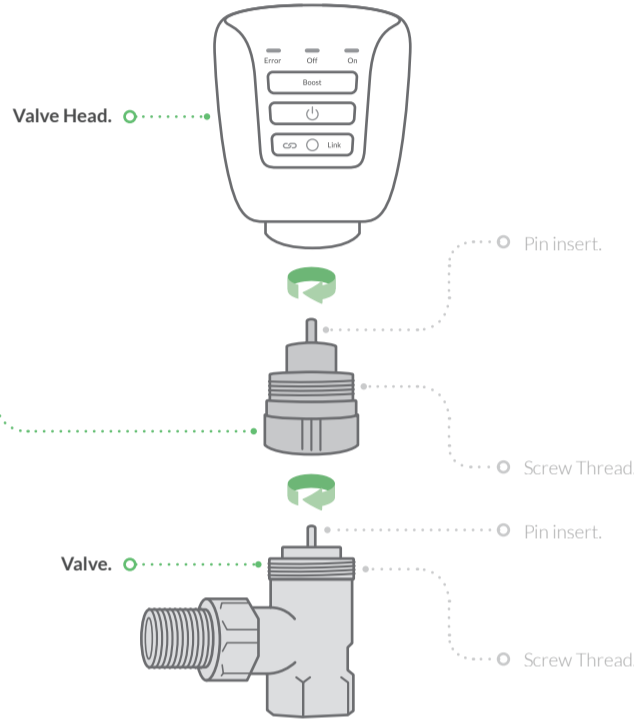
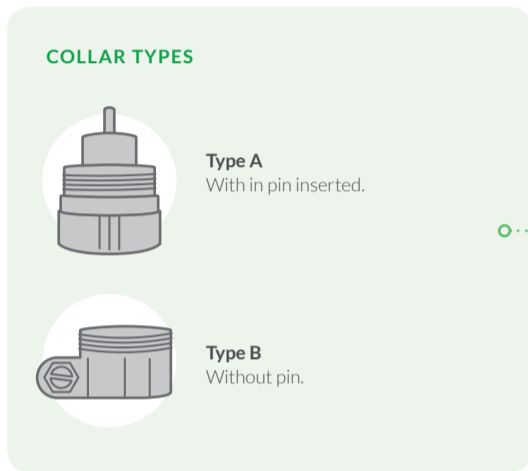
1.2 Screw fit the Lightwave Radiator Valve

The Lightwave Radiator Valve will screw fit the majority of existing thermostatic valves without alterations. There are, however, several adapter collars provided to compensate for the most typical variations in the diameter of the valve and screw thread.

There are 2 types of collar (type A, type B). If type A fits the valve screw thread, this is the more desirable collar to use. It has 4 insert pin length options provided for the collar. The most suitable pin is the one that (when in the collar) replicates the length of the existing pin. Type B provides a clamp fit around the valve body and can be tightened using the screw provided.

1.3 Insert the batteries

The battery compartment is located at the top of the Lightwave Valve. Remove the cover and insert 2x AA batteries. Once the batteries are inserted, the Lightwave Valve will automatically calibrate itself (this can take up to a minute). This requires it to be attached to the radiator, therefore do not insert the batteries until the Lightwave Valve is securely installed. If the 'error' LED lights up during calibration, the radiator valve is not seated properly and may need adjustment.



2 Link the Valve

To be able to command the Socket, you will need to link it to the Link Plus.

Please follow the in App instructions which will explain how to link devices.



When prompted, press and release the 'Link' button on the Lightwave Valve (the on and off LEDs will flash alternately).



Press

Send the linking command from the App (the in-App instructions will explain how to do this). The 'on' LED should flash to indicate a successful link.



Link



3 Other Valve functions

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The boost button

Pressing the boost button on the Lightwave Valve raises the target temperature by a few degrees above the current room temperature for the duration of one hour. If the target temperature is already several degrees higher than the actual room temperature, then pressing boost will simply match this temperature.

The standby button

Pressing the 'standby' button on the Lightwave Valve toggles between the fully open and fully closed positions for the duration of one hour. This will turn the radiator on or off by enabling or preventing the flow of hot water to it. When the 'standby' button is pressed, a green light will illuminate to indicate that the valve is opening, or an amber light will illuminate to indicate that the valve is closing.

Understanding the indicator LEDs

- **Steady green 'on':**
Radiator valve opening
- **Steady amber 'off':**
Radiator valve is closing
- **Alternating on/off (longer on LED):**
Linking mode
- **Alternating off/on (longer off LED):**
Unlinking mode
- **Steady red & amber:**
Valve jammed or wrong pin
- **Steady red & green:**
Not mounted correctly / wrong pin
- **Flashing red:**
Low battery (The App will also report low battery status).