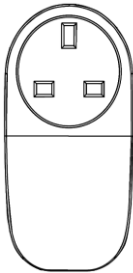# Drayton
by Schneider Electric
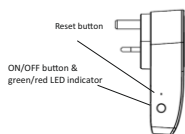
RF Range Extender
WA104H1A0000

Quick Start Guide

Get to know your device

This guide provides you with an overview of the Range Extender and helps with the initial setup. It is easy to install and use.

The Range Extender allows you to improve the range of the RF signal from the Wiser Heat Hub[R] to your room thermostat and radiator thermostats. It will improve connectivity with devices that have a low signal.

The integrated power socket allows power to other devices so you do not lose the use of the power socket. The ON/OFF button is used to switch the integrated power socket ON/OFF.

The Reset button is used to factory reset the device and remove it from a Wiser system after initial installation. The Reset button can be pressed with a pen, or similar.

Reset button

ON/OFF button &
green/red LED indicator

Before connecting an electrical product through the Range Extender, ensure it has a rated current of MAX 10A.

LED Behaviour

Status	User Interaction	LED
Socket ON	Press ON/OFF button	Solid or flashing green
Socket OFF	Press ON/OFF button	Solid or flashing red
Reset Range Extender and return to factory settings. (This removes it from a Wiser system and switches the socket OFF)	Press and hold the Reset button for 10 seconds	3 quick flashes after 3 seconds, 3 quick flashes after 10 seconds

Joining the Range Extender to the Wiser Heat Hub[R]

1. Press and hold the Setup button on the Wiser Heat Hub[R] for 5 seconds.
2. The Setup LED will alternate between green and orange.
3. Plug in the Range Extender to a wall socket located mid way between the Heat Hub[R] and the heating device experiencing a low RF signal. The ON/OFF button LED of the Range Extender will flash red (green if the socket is on).
4. The Range Extender will join the Heat Hub[R] automatically and the LED will show a solid red (or green) when successfully joined.
5. Open the Wiser Heat app on your mobile device. If the app was already open, exit and close it fully, then re-open it. The Range Extender is now visible; go to "Settings" then select "Rooms and Devices". The Range Extender will appear under "Other".
6. Switch off your Heat Hub[R], wait two minutes, power it up again and wait for the Setup LED to show a solid green.

Once the Range Extender has successfully joined a Wiser Heat Hub[R] it can be unplugged from a wall socket and re-inserted without having to rejoin the Heat Hub[R].

If you want to repeat the joining of the Range Extender to your Heat Hub[R] or you want to join the Range Extender to another Heat Hub[R], first reset the Range Extender as per instructions in the grid above, then follow steps 1-6.

Note: The Range Extender will normally join the Heat Hub[R] within one minute. If it fails to join within this period, simply reset the Range Extender and repeat steps 1-6 above.

Existing Room Thermostats and Radiator Thermostats

After the Range Extender has been joined to the Heat Hub[R] and the Heat Hub[R] has been powered off and then back on again, existing heating devices, i.e. room thermostats and radiator thermostats already paired to the system, will automatically find the best communication channel either via the Range Extender or direct to the Heat Hub[R]. Allow up to 15 minutes for this process to complete. The RF signal strength can thereafter be checked in the Wiser Heat app under "Rooms & Devices". Additionally, for Room Thermostats, the signal strength can also be checked directly on the display.

Join a new Room Thermostat or a Radiator Thermostat

After you have successfully joined the Range Extender to the Wiser Heat Hub[R], you can join the room thermostat or radiator thermostat to it. Refer to the Wiser User Guide available at http://wiser.draytoncontrols.co.uk/support. If this is done as part of your initial commissioning go to "Set up a new system". If you have already set up your Wiser system and are just adding individual devices go to the section "How to add new rooms and devices", which is found under "Control your heating".

Use as socket

1. Insert the Range Extender to a wall socket and ensure the wall socket has power.
2. Plug in an electrical product to the Range Extender.
3. Ensure the Range Extender is ON (ON/OFF button LED flashing or solid green)

If the On/Off button LED is showing a flashing or solid red the socket is OFF and will not power any device plugged into it.

Technical Specifications

Operating Temperature	0°C to +50°C
Storage Temperature	-10°C to +60°C
Ingress Protection	IP51
Operating Voltage	100-240Vac ~50/60Hz
Maximum Load	10A
Ambient Humidity (non-condensing)	5%-85%
Pollution degree	2
Software Class	A
Rated Impulse Voltage	2.5 kV
RF Band	2.4GHz ISM Band
Maximum RF Power Transmitted	8dBm
Directives & Applied Standards	RE-Directive (2014/53/EU); EN 60950-1;EN 62479; EN 301 489; EN 300 328

Safety Handling

WARNING: Failure to follow these safety notices could result in fire, electric shock, other injuries, or damage to the Range Extender and other property. Read all the safety notices below before using the Range Extender.

- Avoid high humidity or extreme temperatures.
- Avoid long exposure to direct sunlight or strong ultraviolet light.
- Do not drop or expose the unit to intense vibration.
- Do not disassemble or try to repair the unit on your own.
- Do not expose the unit or its accessories to flammable liquids, gases or other explosives.

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