

Commercial and confidential

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Smart Programmable Thermostat H3747 is registered trade name of Secure Meters Ltd.

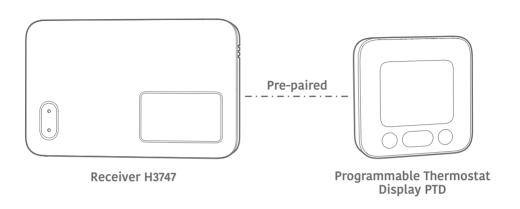
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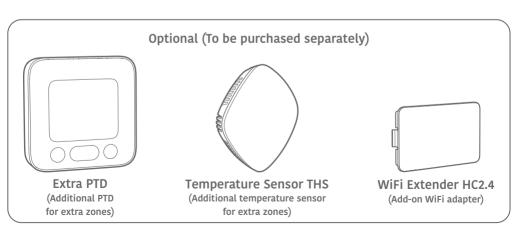
As part of Secure Meter's continuous endeavour to improve, product design and specifications mentioned are liable to change. System functionality information, illustrations and product aesthetics published in the document may vary from those of your product.



The Secure Controls products requires electrical connections at mains voltage and should be installed by a suitably competent person, in accordance with Part P of the Building Regulations, BS 7671:2008, (e.g. an electrical contractor registered with an authorised competent person self-certification scheme).

In the box





Know your products

Receiver H3747

- Mains-powered device, compatible with Combination, System and Regular boilers (Heat+hotwater+zones)
- Communicates wirelessly with PTD, temperature sensor and mobile app
- · Variant with WiFi module available for remote access
- Simple installation for retrofits with minimum wiring changes required
- Supports boiler plus compliance, load compensation and service interval functionality
- 7 year no quibble warranty

Programmable thermostat display (PTD)

- · Independently controls heating and hot water
- No need for WiFi when programming schedule
- Home and Away one-click function
- Guaranteed 12 year battery life
- · Easy and intuitive 7 day programming

Temperature sensor THS

- Cost-effective add on device to manage additional heating zones
- · Wireless and simple to install

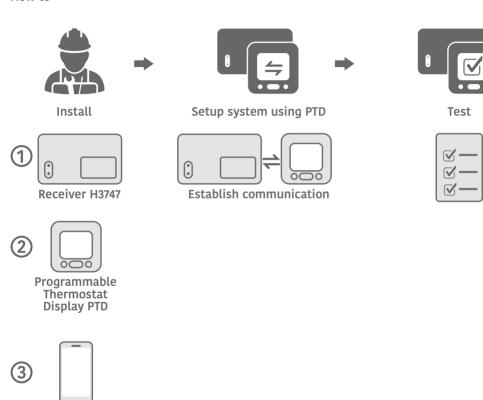
WiFi Extender HC2.4

- Plug and play wireless module to control your system remotely
- Works well with 2.4 GHz wireless router

What is covered?

User mobile app

How to



Compatibility

The H3747 Smart Programmer is compatible with most heating control systems and is ideal for compatible system boilers using spring return valves. It can also work with combination boilers as well as heat pumps requiring On/Off control.

Shipped with a standard 9-pin back plate, it can easily replace Centaurplus and Serviceplus time switches and programmers requiring minimum of wiring changes.



Failure to observe precautions may result in fatal injury and equipment damage



Hazard of electrical shock or explosion



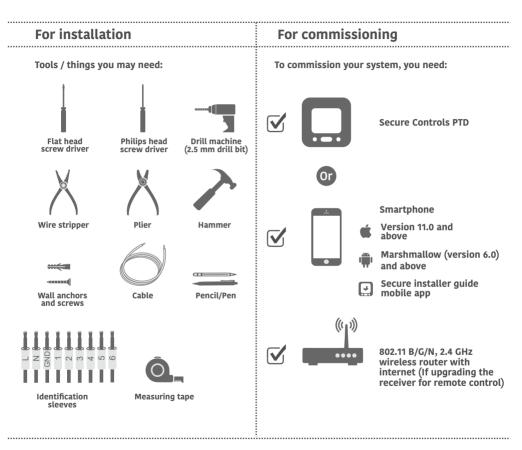
Double insulation protection







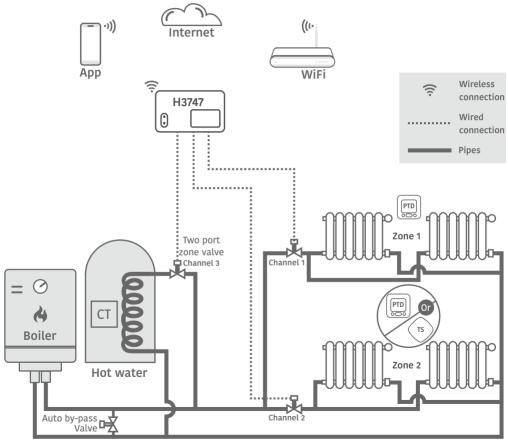
Prerequisites



Typical system deployments*

2 Zone heating and hot water

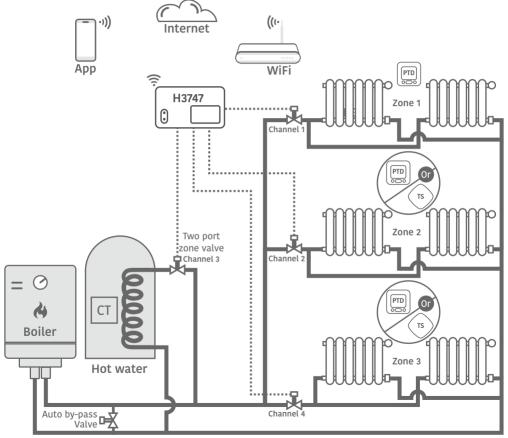
* All graphics are for illustration purpose only



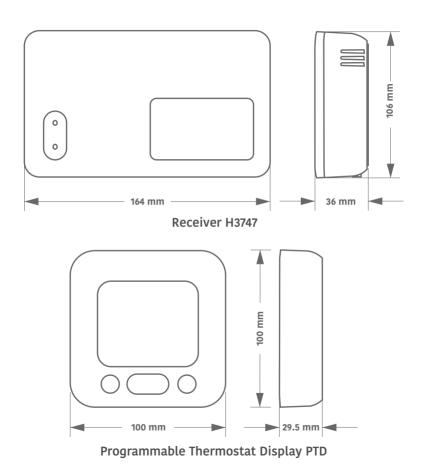
Typical system deployments*

3 Zone heating and hot water

* All graphics are for illustration purpose only



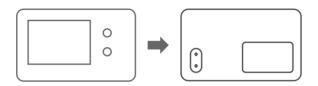
Product dimensions



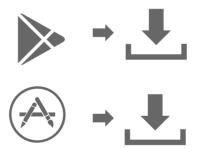
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Download the installer mobile app

If you are replacing an existing programmer or time switch or even performing a fresh installation, we recommend that you install the Secure Installer Guide mobile app.

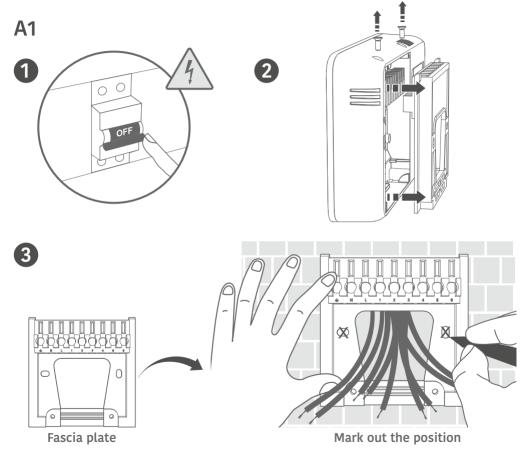


1. Download the Secure installer guide mobile app

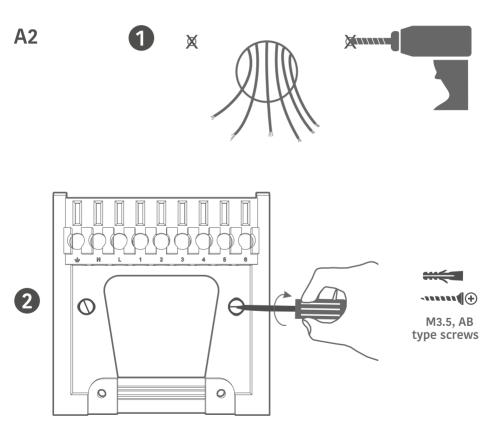


- 2. Open the app and select Replace a programmer or time switch
- 3. Choose your existing product and follow the instructions

Install the receiver

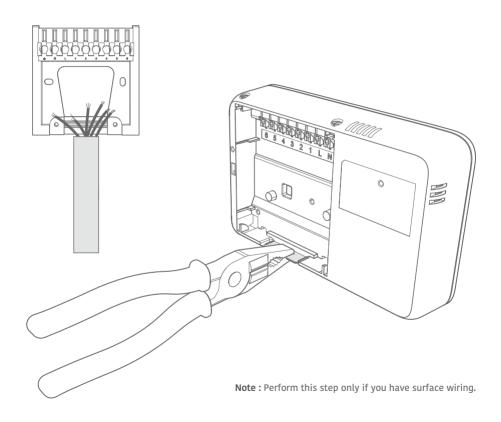


Drill the holes and secure the mounting plate

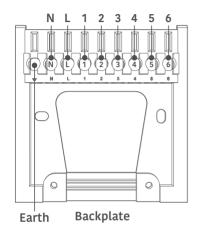


In case of surface wiring (Optional)

Break the surface wiring knockout provided on the receiver before proceeding further.



Label your wires



Pin	Label	Pin description	
Е	Earth	Earth	
N	Neutral	Neutral	
L	Live	Live	
1	On 1	Zone 1 On	
2	COM 1/2	сом	
3	On 2	Zone 2 On	
4	COM 3/4	СОМ	
5	On 3	Zone 3 or hot water On	
6	On 4	Zone 4 On	

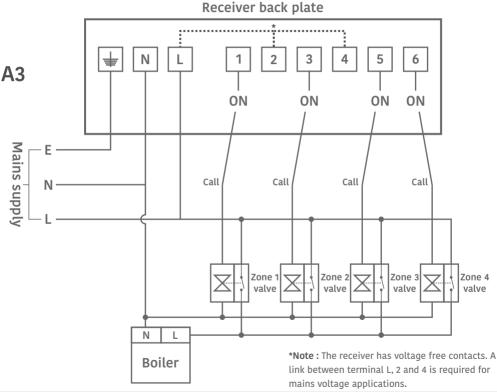
If replacing, take a picture of your old thermostat connections, label and re-wire as shown in Secure Controls installer app.



Make connections

This diagram is schematic and should be used for guidance only.

4 zone heating system

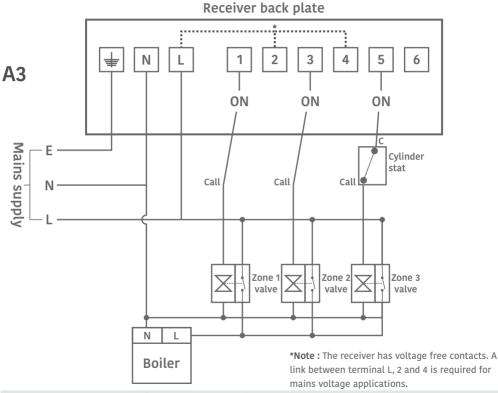


Note: Connections shown for mains operated 4x heating zone system. These may vary for different boiler types.

Make connections

This diagram is schematic and should be used for guidance only.

2 zone heating and hot water system

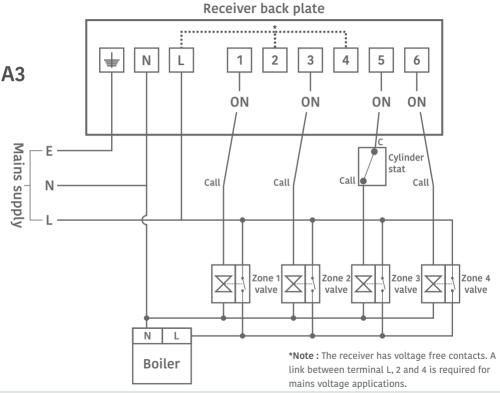


Note: Connections shown for mains operated 2x heating zone + 1x water heating system. These may vary for different boiler types.

Make connections

This diagram is schematic and should be used for guidance only.

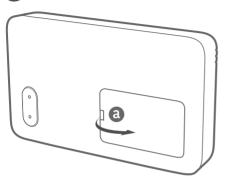
3 zone heating and hot water system

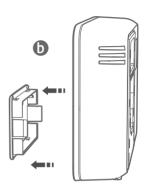


Note: Connections shown for mains operated 3x heating zone + 1x water heating system. These may vary for different boiler types.

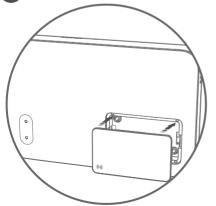
Plug in the WiFi extender HC2.4 (optional)

1 Remove dummy cover





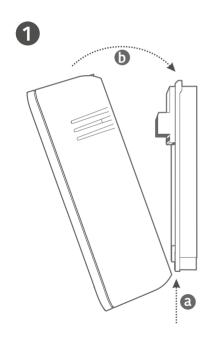
2 Plug in the WiFi adapter

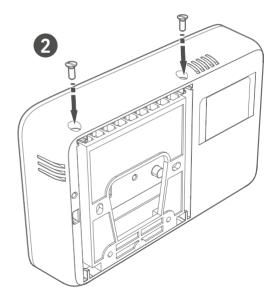


Note : WiFi adapter once installed cannot be removed

Fit the receiver

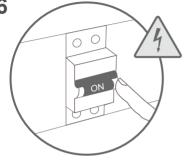
A4

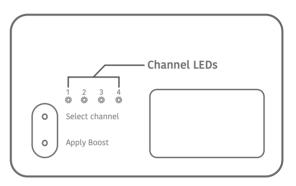




Verify installation

A6



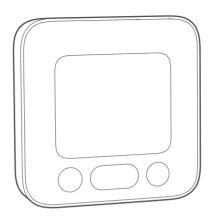


LED states				
Default state	Solid white			
During setup	Blinking white (LED 1)			
* Switch between channels	Blinking red			
* Confirm channel selection	Solid red			

* Note:

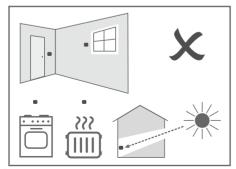
- Use the top button (Select channel) to switch between different channels.
- 2. Use the bottom button (Apply Boost) to confirm channel selection.
- Long press any button to initiate setup. It suggests that the receiver is ready to be paired with mobile app or another PTD.

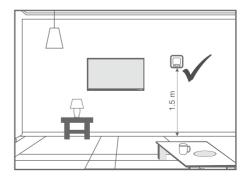
Install the PTD



Ideal mounting location

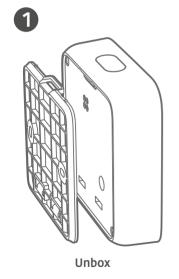
The PTD should be placed approximately 1.5 metres above floor level, in 'free space', away from draughts and sources of heat or electrical interference.

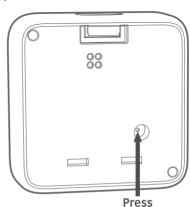




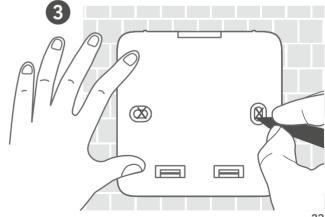
Mark out the mounting position







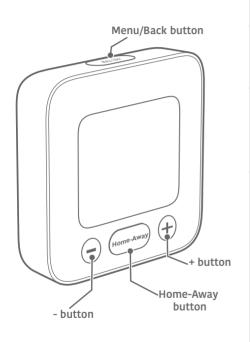
The product is shipped in deep sleep mode to save battery. To wake up the device, you must press the button at the rear before setup.



Fit the PTD

× Mannana . **B2** 0 **~~~~~** M3.5, AB type screws **a** Click

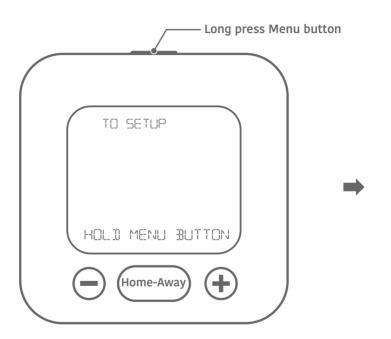
PTD button functions



Buttons	Functions	
Menu/Back button	Press 1. To enter the main menu 2. To return to the previous menu / selection	
Home-Away button	Press 1. To navigate between modes (Home/Away) 2. To enter a menu/screen 3. To confirm a change or setting or enter	
+ or - button	Press (+) 1. Increase the target temperature 2. To navigate between different menus (In forward direction) 3. To navigate between different items within a menu (In forward direction)	
	Press (-) 1. Decrease the target temperature 2. To navigate between different menus (In backwards direction) 3. To navigate between different items within a menu (In backwards direction)	

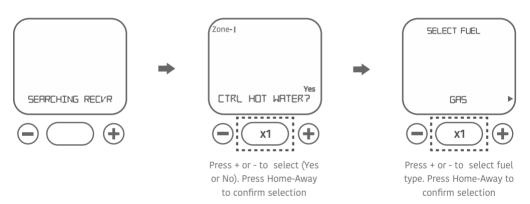
Establish communication with the receiver

Long press the Menu button to establish communication between Receiver H3747 and PTD



Note: The PTD has great temperature sensitivity and you may observe a sudden rise in ambient temperature during the commissioning process triggered by the touch of your hand. This is only temporary.

Establish communication with the receiver



Communication established



PTD after establishing communication with the receiver

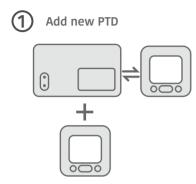
Install the user mobile app

1. Download the Secure Controls user mobile app



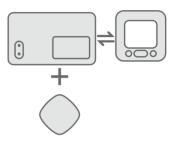
2. Open the app and create an account to sign in

Optional installation



Refer quick installation guide of PTD





Refer quick installation guide of THS

Product technical specifications

Receiver H3747	
Operating temperature	0°C to 40°C
Pollution degree	2
Ingress protection	IP30
Rated input voltage	230V ± 10% AC
Relay contact voltage rating, Ch1 to Ch4	Volt free (max 230/240 V AC)
Relay current rating	3(1) A maximum
Storage temp. range	-20°C to +70°C
Relative humidity	0% to 95% non condensing
Wireless communication	WiFi (2.4 GHz) , 2.4 GHz RF
Standards	1. Safety: Class II as per BS EN 60730-1; EN 60730-2-7; EN 60730-2-9 2. EN 301 489-1,17 3. EN 300-328 4. ROHS & REACH 5. WEEE

Product technical specifications

Programmable Thermostat Display PTD				
Operating temperature	0°C to 40°C			
Storage temp. range	-20°C to +70°C			
Relative humidity	0% to 95% non condensing			
Pollution degree	2			
Ingress protection	IP30			
Battery specifications	Non replaceable 2x A Lithium-ion, 3.6 V, 3600 mAh (each)			
Battery life	≈12 years			
Wireless communication	2.4 GHz RF			
Standards	1) EN 300-328 2) Safety standards: IEC 62368-1 3) EN 301 489-1, 17 (RED) 4) RoHS Directive 2011/65/EU 5) WEEE			

Products variants

Product name	Model number	Description
Programmable Thermostat Display PTD	SCD100-000	Battery operated device for zone heating and hot water
Programmable Thermostat C1727	SCT200-000	Mains powered 2 channel receiver C1727 and Programmable Thermostat Display (PTD)
Programmable Thermostat H3747	SCT400-000	Mains powered 4 channel receiver H3747 and Programmable Thermostat Display (PTD)
Temperature Sensor THS	SCS100-000	Battery operated heating control Temperature Sensor THS
WiFi Extender HC2.4	SCW100-000	2.4 GHz WiFi add-on adapter for 2 and 4 channel receiver, It is used to enable WiFi functionality in the receivers

Notes

Learn more

Receiver H3747

The H3747 Smart programmer is designed for use with one to four zones of heating or hot water using spring return valves. Compatible with most regular heating systems including combination or system boilers as well as heat pumps requiring on – off control. The receiver is supplied with a standard 9-pin back plate for easy retrofit onto legacy Channel Plus or 425 programmers and time switches, with minimum wiring changes. Supporting Boiler plus compliance with Load compensation and optimum Start / Stop which significantly improves boiler efficiency by preventing short-cycling and temperature overshooting. The H3747 can also control the schedule of existing wired thermostats and lets you establish communication between the boiler/heating system and the PTD to enable the right comfort levels in each of your zones. Ideal for replacing traditional wired controls for systems that require separate control of heating and hot water or multiple heating zones

PTD

This is a battery operated wireless device, which measures and controls up to 4 zones (3 heating + 1 hot water or 4 heating). Designed for comfort and convenience, it comes with an intuitive interface and powerful features such as Receiver operating mode, Boost, Scheduling, Optimum start/stop and Service interval etc. There is no need for Wi-Fi when programming schedule in the PTD as it offers easy 7 day programming. With a guaranteed 12 year battery life, it is an ideal replacement for wired thermostats, with limited functionality.



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