



Disclaimer

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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 C1727

- 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?

How to



Compatibility

The C1727 Smart Programmer is compatible with most heating control systems and is ideal for S and Y plan system boilers using spring return valves.

It works well with compatible combination or system boilers as well as heat pumps requiring On/Off control. Shipped with a standard 6-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*

Single zone heating and hot water

* All graphics are for illustration purpose only



Typical system deployments*

Combi-boiler with 1 zone heating

* All graphics are for illustration purpose only



Typical system deployments*

Combi-boiler with 2 zone heating

* All graphics are for illustration purpose only



Product dimensions



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 from the relevant App store



2. 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



Ba	ck	pla	ate

Pin	Label	Pin description
N	Neutral	Neutral
L	Live	Live
1	Off 1	Hot water OFF (NC), channel 1
2	СОМ	Common
3	On 1	Hot water ON (NO), channel 1
4	On 2	Heating ON (NO), channel 2



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



A3

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

230 V Combi-boiler connection



Receiver back plate

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

2x heating zone system





required for mains voltage applications

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

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

1x heating + 1x water heating system



Note: Connections shown for 1x heating and 1x water heating. Connections may vary for different boiler types.

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

Receiver back plate



Plug in the WiFi extender HC2.4 (optional)



Remove dummy cover



Note : WiFi adapter once installed cannot be removed



Fit the receiver

A4





Verify installation



LED states		
Default state	Solid white	
During setup	Blinking white	
Channel selected	Solid red	

* Note:

- 1. Use the top button or bottom button to select the required channel.
- 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



Fit the PTD



PTD button functions

	Buttons	Functions
Menu/Back button	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
Home-Away button	+ 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 C1727 and PTD



Notes: 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. **28**

Establish communication with the receiver



Communication established



PTD after establishing communication with the receiver



Scan the QR code to view the detailed PTD user manual on your PC or mobile device.

Install the user mobile app

1. Download the Secure Controls user mobile app



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

Product technical specifications

Receiver C1727	
Operating temperature	0°C to 40°C
Pollution degree	2
Ingress protection	IP30
Rated input voltage	230V ± 10% AC
Relay contact voltage rating, Ch1 and Ch2	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, BS EN/EN 60730-2-7, BS EN/EN 60730-2-9 2. BS EN/EN 301 489-1,17 3. BS EN/EN 300-328 4. ROHS 2 & 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) BS EN/EN 300-328 2) Safety standards: BS EN/IEC 62368-1 3) BS EN/EN 301 489-1, 17 (RED) 4) RoHS 2 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

Learn more

Receiver C1727

This is a mains-powered device designed to control boilers and domestic or light commercial heating systems. It lets you establish communication between the boiler/heating system and the PTD to enable the right comfort levels in each of your zones. C1727 is Ideal for replacing traditional wired controls for systems that require separate control of heating and hot water or multiple heating zones. Once commissioned, the Receiver

1. Can be operated locally via smart phone to control heating and hot water (If applicable)

2. The WiFi variant can be operated remotely using the Secure Controls mobile app with Internet to control heating and hot water (If applicable)

This device is designed for S and Y Plan using spring return valves and is compatible with most Gas combination and system boilers. It is supplied with a standard 6-pin back plate and is easy to replace with minimum wiring changes. C1727 supports Boiler plus compliance, load compensation and service interval functionality that significantly improves boiler efficiency by preventing short-cycling and overshooting of temperature when used with Programmable thermostat display. Load compensation has been shown to save energy compared to traditional systems, while maintaining more consistent comfort levels. Supplied with a 7 year no quibble warranty, it is an ideal replacement for Centaurplus and Serviceplus time switches and programmers.

PTD

This is a battery operated wireless device, which measures and controls up to 2 zones (2 heating or 1 hot water + 1 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 WiFi 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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