



Product catalogue

Simple and affordable heating controls
to reduce energy use and save money

7
years
no quibble
warranty



Secure is a multi-national company providing innovative solutions for revenue management, power quality, and efficiency, since 1987. Our mission is to enable users to save money, reduce energy consumption and live more comfortably.

Secure created the world's first commercially viable energy meter and have grown steadily worldwide; with offices in nine countries and products installed in over 60 countries. Secure have had a presence in the UK since 1996, with two offices, a production facility, and branded products in over 4 million homes. We are the second-largest metering manufacturer in the UK.

In 2007, Secure acquired Horstmann; where we continued making and selling heating controls under the Horstmann name. In 2020, after consultation with customers and users, it was decided to rebrand Horstmann to Secure. This allowed us to review the range, including launching new innovative and intelligent products better suited to meet our customer's needs.



All our products come with a 7-year no quibble warranty. Secure, performance and quality guaranteed.



For more details visit our website www.securemeters.com/controls

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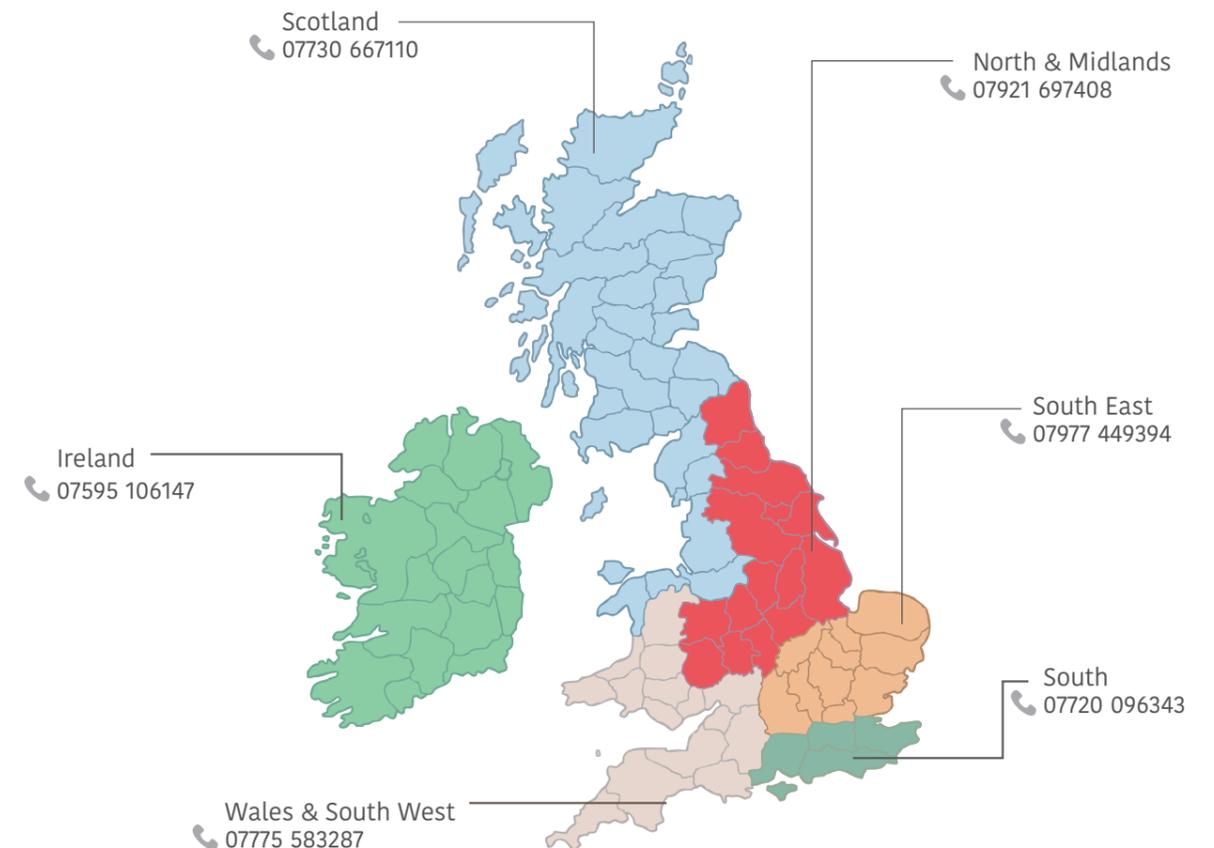
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Technical support and queries:

01962 826213

Mon to Thurs: 8:30 – 17:00

Fri: 8:30 – 16:30 (leave message outside these hours)



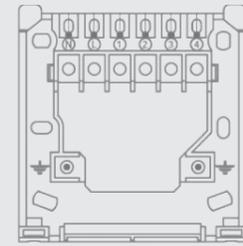


CentaurPlus C17 & C27
ServicePlus S17 & S27

Retrofit with standard 6-pin backplate

Thermoplus PRT1, AS1, AS2
425 series & ChannelPlus H17 & H27

Requires a new backplate and wiring



6 pin backplate for C1727

C1727

Wireless programmable thermostat & receiver
can control up to 2 zones



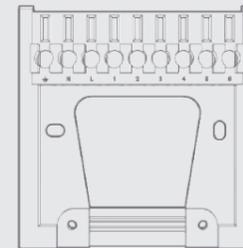
Find out more at:
www.securemeters.com/c1727



425 Tiara, Diadem & Coronet
(for loads of 3A or under) *

ChannelPlus H17, H27, H37 & H47

Retrofit with standard 9-pin backplate



9 pin backplate for H3747

H3747

Wireless programmable thermostat & receiver
can control up to 4 zones

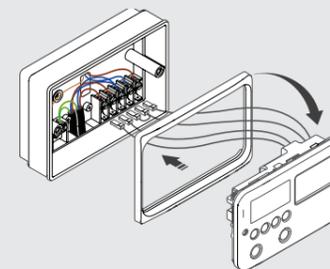


Find out more at:
www.securemeters.com/h3747



Economy 7 quartz
E7 quartz 2 hour
Electronic 7

Upgrade from our traditional
immersion heater controls



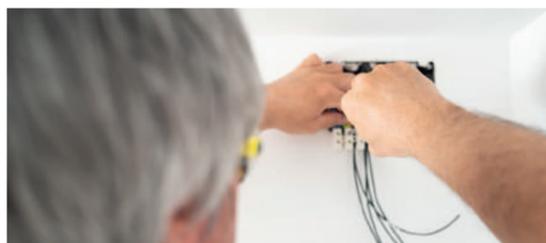
Adaptor plate for retrofitting

E7+

Wireless immersion heater controller



Find out more at:
www.securemeters.com/e7+



Download our installer app

Make installations and retrofitting easier



Our installer app has all the wiring diagrams for Secure/Horstmann and competitor products, links to older product databases, and the installation process to help with retrofitting with our new controls range.

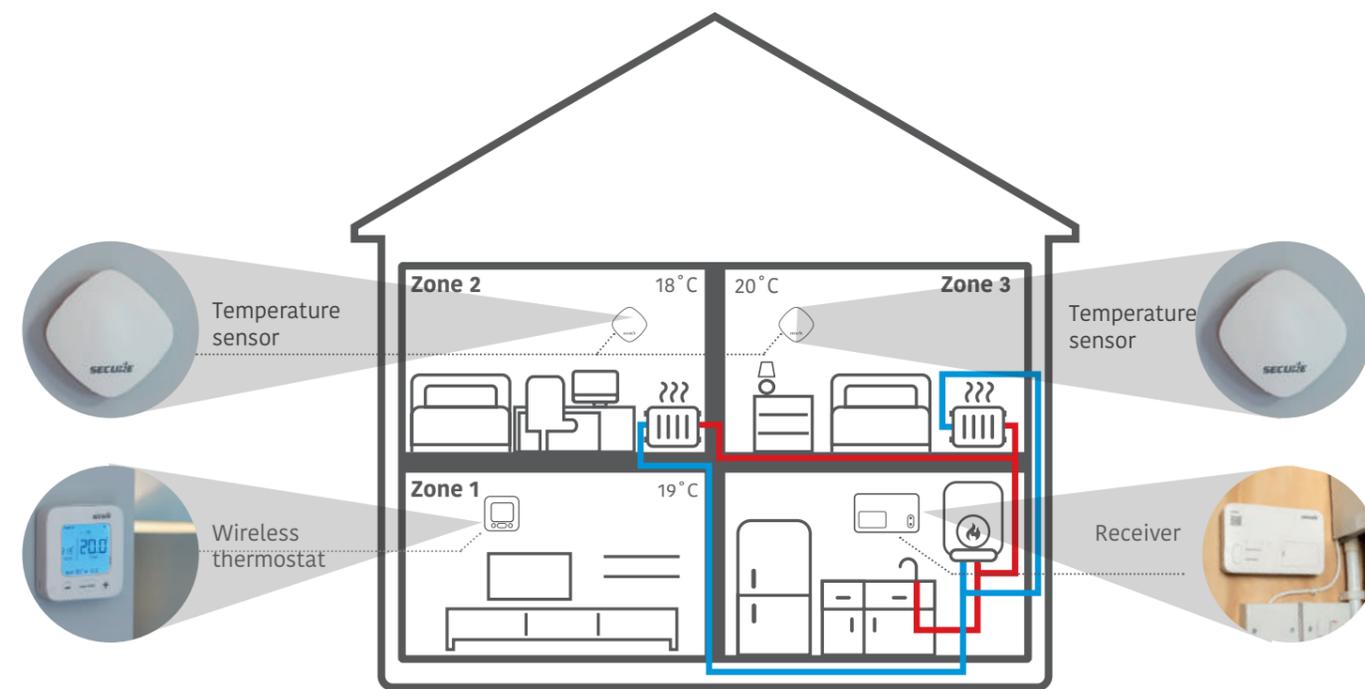
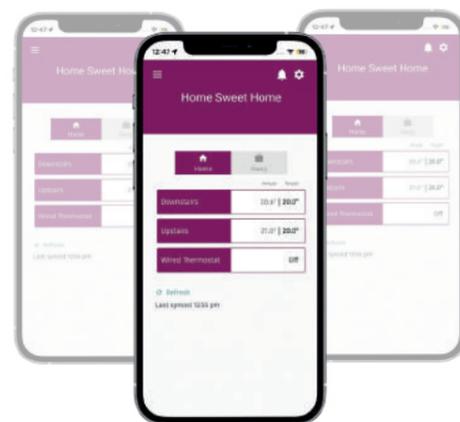
A flexible 'smart-capable' modular system



The Secure heating control app
Can control water heating via Bluetooth or Wi-Fi*

Download on the **App Store** | GET IT ON **Google play**

* Requires a Wi-Fi adaptor



Typical 3 zone set-up

The Secure thermostat is battery operated and controls your heating and hot water. The Secure C1727 model can control up to 2 zones, the Secure H3747 model up to 4 zones.

Smart-capable room thermostats

Simplicity sits at the heart of our range of smart capable thermostats, offering the latest energy saving features whilst remaining simple to install and use. This range has been designed in response to the nationwide increase in the use of smart thermostats. These controls are customisable without compromising on quality or efficiency, and designed to be used at whatever level of smart is suitable for you.

Bridging the gap between traditional and smart thermostats

We recognise that everyone is different. Some people just want the simple familiarity of a traditional wall mounted

thermostat with intuitive push button controls. Others crave the latest smart functionality, such as turning up the heating from your phone whilst sat in a coffee shop, or setting the heating to turn on an hour earlier whilst in the workplace. Our C1727 and H3747 thermostats can be configured and used, whatever your preferences.

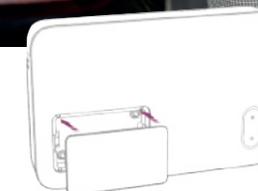
This makes controlling your home heating system simple, efficient, and convenient, helping to save you time and money whilst reducing our impact on the planet. They are simple to use, simple to upgrade, and come with a dedicated app that allows for a plethora of different ways to control the device, without taking away from the easy to use interface of the thermostat.

Smart upgradable with our Wi-Fi adaptor

For control from outside your home

Out of the box the receiver can be controlled by the thermostat or via the bluetooth app. With the optional Wi-Fi adaptor, the heating system can be controlled from anywhere. This will not require any rewiring or additional hubs or gateways to be installed.

We are the only controls on the market to offer this simple upgrade option.



Front-loading Wi-Fi adaptor is easy to install for full remote control from anywhere

C1727

Smart wireless programmable thermostat and receiver

The new C1727 is a receiver / wireless thermostat unit (for managing up to 2 zones) which can control combi or system boilers. Out of the box it is wireless enabled and can be controlled by an app. With the optional Wi-Fi adapter, it can fully control your heating system outside of the home via the app.

Ideal for replacing traditional wired controls for systems that require separate control of heating and hot water or up to two heating zones. It is compatible with the standard 6-pin backplate offered with our popular CentaurPlus and ServicePlus timer, programmer range.

C1727 / thermostat	SCT200-000
Temperature sensor	SCS100-000
Extra thermostat	SCD100-000
Wi-Fi adaptor	SCW100-000



Works with Secure heating control app

Can control water heating via Bluetooth or Wi-Fi*



* Requires a Wi-Fi adaptor

Add-ons:



Extra thermostat



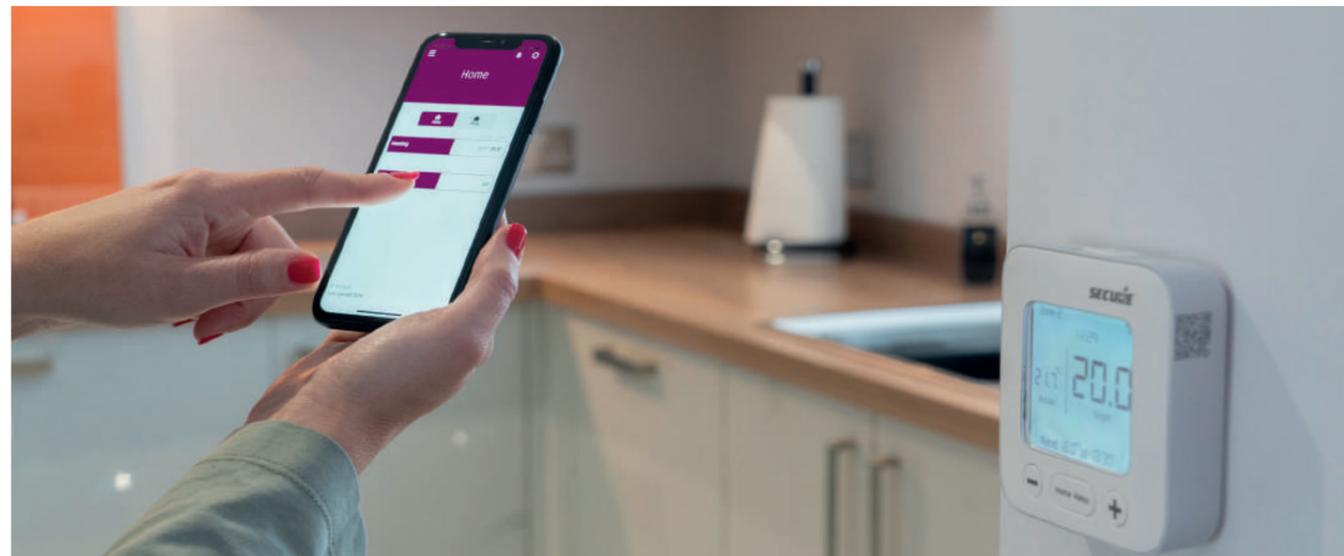
Temperature sensor



Wi-Fi adaptor



Find out more at :
www.securemeters.com/c1727



Applications

- Easy replacement of timers/programmers
- Combi boiler – central heating, 2-zone system
- Central heating and hot water control
- Domestic gas or oil-fired boiler based heating systems
- 2-channel control with local override via button

Features

- 2 channels, 3A rated, volt free operation
- Optimum start and stop
- 6-pin backplate
- Local override
- Load compensation for efficiency and comfort
- Service Interval reminder
- Installer and user app (Android and iOS)
- Local control by mobile app using wireless technology
- Remote control capability by Wi-Fi adaptor

Benefits

- Retrofit on many existing controls with convenient installation using 6-pin configurations on backplate
- Click-off / Click-on with simple wiring changes for easy and quicker installation
- 12 year battery life warranty on programmable thermostat display (PTD)
- No Wi-Fi necessary for local remote control of heating via app
- Boiler Plus compliant (load compensation and optimum start / stop)
- 7-year no quibble product warranty



Providing load compensation to ensure compliance with latest Boiler Plus regulations.
For more information see page 28

Technical specifications

Electrical

Number of channels	2
Relay input voltage rating (CH1 and CH2)	12V to 30V DC, or 230/240V (50Hz)
Relay current rating	3A resistive / 1A inductive
Supply (receiver)	230V / 240V AC (50Hz)
Battery specification (thermostat)	Non replaceable 2 x A lithium ion, 3.6V, 3600 mAh
Battery specification (temperature sensor)	2 x AAA alkaline
Battery life (PTD)	≈12 years
Insulation category	CAT II
Software class	Class A
Control type	Micro-interruption

Compliance

Design standards	Product Standard: EN 60730-1, EN 60730-2-9 RED Radio: ETSI EN 300 328 RED EMC: ETSI EN 301 489-1, ETSI EN 301 489-17 Safety: EN 62311 :2008, EN62368-1 :2014
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Mechanical

Dimensions (receiver)	91 x 153 x 32.5mm
Dimensions (PTD)	100 x 100 x 29mm
Dimensions (temperature sensor)	83 x 83 x 18mm
Weight (receiver)	161g (approx.)
Case material	Thermoplastic flame retardant
Mounting	6-pin standard wall plate

Environmental

Impulse voltage rating	Cat II 2500V
Enclosure protection	IP30
Pollution degree	Degree 2
Operating temperature range	0°C to +40°C
Storage temperature	-20°C to +70°C
Environmental humidity range	0 to 90%

Radio

Compliance	Bluetooth BLE compliant
Operating frequency	2.4 GHz
RF range	~60 m, line of sight

H3747

Smart wireless programmable thermostat and receiver

The new H3747 is a receiver/thermostat unit (for managing up to 4 zones) that can control combi or system boilers. It is wireless-enabled out of the box and can be controlled by an app. With the optional Wi-Fi adaptor, it can fully control your heating system outside of the home.

Ideal for replacing traditional wired controls for systems that require separate control of heating and hot water or multiple heating zones. It is compatible with the standard 9-pin backplate offered with our popular ChannelPlus, the programmer range can easily replace the H37 or H47XL with only minimum wiring changes.

H3747 / thermostat	SCT400-000
Temperature sensor	SCS100-000
Extra thermostat	SCD100-000
Wi-Fi adaptor	SCW100-000



Works with Secure heating control app
Can control water heating via Bluetooth or Wi-Fi*



* Requires a Wi-Fi adaptor

Add-ons



Extra thermostat



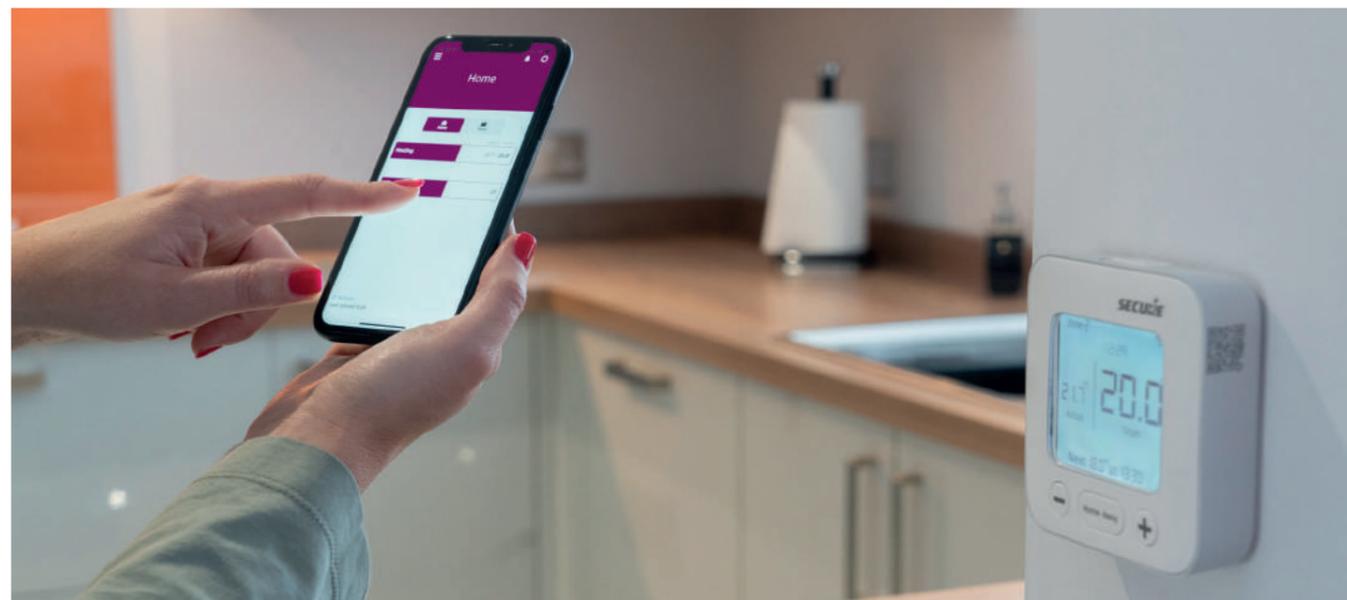
Temperature sensor



Wi-Fi adaptor



Find out more at:
www.securemeters.com/h3747



Applications

- Easy replacement of timers/programmers
- Combi boiler – central heating, 4-zone system
- Central heating and hot water control
- Domestic gas or oil-fired boiler based heating systems as well as heat pumps
- 4-channel control with local override via button

Features

- 4 channels, 3A rated, volts free operation
- Optimum start and stop
- 9-pin backplate
- Local override
- Load compensation for efficiency and comfort
- Service Interval reminder
- Installer and user app (Android and iOS)
- Local control by mobile app using wireless technology
- Remote control capability by Wi-Fi adaptor

Benefits

- Retrofit on many existing controls with convenient installation using 9-pin configurations on backplate
- Click-off / Click-on with simple wiring changes for easy and quicker installation
- 12 year battery life warranty on programmable thermostat display (PTD)
- No Wi-Fi necessary for local remote control of heating via app
- Boiler Plus compliant (load compensation and optimum start / stop)
- 7-year no quibble product warranty



Providing load compensation to ensure compliance with latest Boiler Plus regulations.

For more information see page 28

Technical specifications

Electrical

Number of channels	4
Relay input voltage rating (CH1 and CH2)	12V to 30V DC, or 230/240V (50Hz)
Relay current rating	3A resistive / 1A inductive
Supply (receiver)	230V/240V AC (50Hz)
Battery specification (PTD)	Non replaceable 2 x A lithium ion, 3.6V, 3600 mAh
Battery specification (temperature sensor)	2 x AAA alkaline
Battery life (PTD)	≈12 years
Insulation category	CAT II
Software class	Class A
Control type	Micro-interruption

Compliance

Design standards	Product Standard: EN 60730-1, EN 60730-2-9 RED Radio: ETSI EN 300 328 RED EMC: ETSI EN 301 489-1, ETSI EN 301 489-17 Safety: EN 62311 :2008, EN62368-1 :2014
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Mechanical

Dimensions (receiver)	91 x 153 x 32.5mm
Dimensions (PTD)	100 x 100 x 29mm
Dimensions (temperature sensor)	83 x 83 x 18mm
Weight (receiver)	161g (approx.)
Case material	Thermoplastic flame retardant
Mounting	9-pin standard wall plate

Environmental

Impulse voltage rating	Cat II 2500V
Enclosure protection	IP30
Pollution degree	Degree 2
Operating temperature range	0°C to +40°C
Storage temperature	-20°C to +70°C
Environmental humidity range	0 to 90%

Radio

Compliance	Bluetooth BLE compliant
Operating frequency	2.4 GHz
RF range	~60 m, line of sight

radbot 1

Intelligent thermostatic radiator valve (TRV)

Radbot is a totally new type of intelligent TRV that learns household occupancy patterns and then heats each room as and when its needed. Put simply, if a room is empty, Radbot knows this and automatically reduces the temperature, saving money and energy.

Save energy and money off your bills by not heating empty rooms. No need for apps, smart thermostats, setting up schedules or engineers visiting your home. Radbot is so simple. Just install, set and forget.

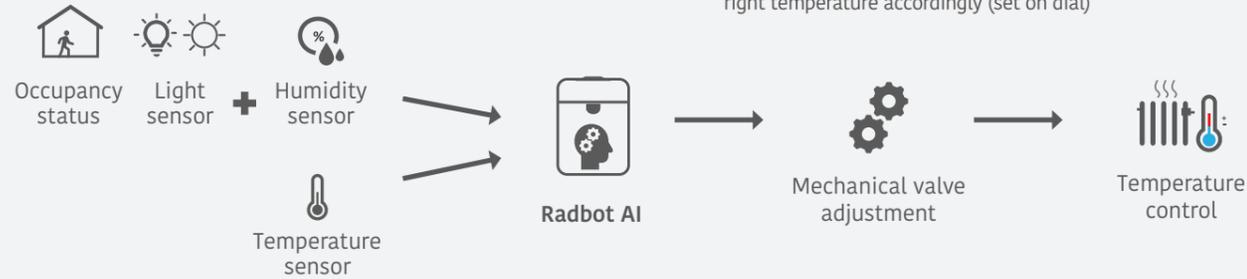
radbot 1	SCV100-000
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radbot 1 with valve base & lock shield valve	SCV100-100
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Find more at:
www.securemeters.com/radbot

How does radbot's artificial intelligence work?



Occupation predictivity

Room Status	Occupied	Empty	Empty but occupancy forecast	Occupied
Time	Midday	2pm	4pm	5pm
Temp.	21°C	18°C	20°C	21°C

Applications

- New installations
- Retrofit installations
- Control of individual radiators
- Room by room heating zones
- Compatible with wet central heating systems including gas & oil boilers & heat pumps

Features

- Frost protection
- Intelligent pre-heat
- Autonomus occupancy driven scheduling
- Whisper mode - quiet night time operation
- Weekly decalcination cycle
- Boost button - temporary temperature override
- Runs on 2 standard AA batteries
- 2 year battery life
- 7 year no quibbles warranty
- Damp protection

Benefits

- Energy efficiency - up to 30% heat energy savings
- Automatic scheduling - Set and forget
- Simple and intuitive user controls
- Improved temperature regulation
- Easy to install - no wiring or plumbing required
- No requirement for Wi-Fi or app
- Cost effective SAP points for part L
- Energy Company Obligation eligible measure

Technical specifications

Electrical

Power supply	3V DC (2 x AA alkaline batteries)
Battery life	>2 years

Mechanical

Dimensions	90 x 55 x 55mm
Case material	Thermoplastic
Weight	164g (approx.)
Control type	Twist cap + /-1 °C, manual boost override
Mounting	Screw on to TRV valve base via supplied adaptor (Selection of 5 adaptors provided)

Environmental

Enclosure protection	IP30
Pollution degree	Degree 2
Operating temperature range	0 °C to 40 °C
Storage temperature	20 °C to +50 °C
Environmental humidity range	0 to 95%
Set point range	+5 °C to +24 °C
Max flow temperature	90 °C
Ball pressure test	at 75 °C
Bending moment test	as per EN215

Standards

Design standard	IEC60730-1 and IEC60730-2-9
ERP Rating	ErP Class VIII
SAP	Product characteristics data base listed
Energy Company Obligation	Time & Temperature Control Zone (TTZC) eligible measure
Conformity assessment	UKCA, EUCE, UKNI
Electrical waste	WEEE

What's in the box

1 radbot device	
5 valve adaptors	M28 x 1.5, M30 x 1.0, M30 x 1.5, Danfoss RA, Danfoss RAVL
2 x 1.5AA alkaline batteries	

HRT4-ZW and HRT4-B

Electronic room thermostats

Wireless or wired, this range of purpose designed room thermostats from Secure offer the latest energy saving control technology combined with established Secure design and manufacturing expertise, making them suitable for use in most types of heating system.

HRT4-ZW	PMR101-114
HRT4-B	NU5690101001



HRT4-ZW with ASR-ZW receiver

Wireless Z-wave electronic room thermostat and ASR-ZW receiver with load compensation – avoids disruptive and time consuming wiring – compatible with most heating systems.

With proven Z-wave wireless technology using the 868.42MHz operating frequency, the thermostat unit features a constant RF status display with its receiver being mains powered with volt free contacts.



HRT4-B

The HRT4-B is a wired battery operated room thermostat with load compensation – for use with new installations or as a replacement for existing room thermostats.

The HRT4-B has 3 amp volt free change over contacts – making it ideal for use with combi boilers as well as conventional mains operated equipment.

Applications

- New installations
- Replacement of old or inefficient thermostats
- System upgrades to add a room thermostat
- Frost protection
- Multi occupancy buildings
- Control of most domestic gas or oil-powered central heating systems
- Control of additional heating zones
- Combination ('combi') boilers
- Control of solid-fuel heating system

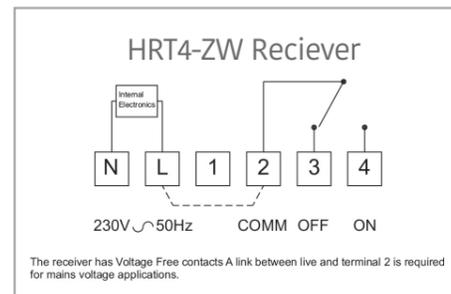
Features

- Wireless or wired (battery operated) versions
- Load compensation
- Boiler Plus compliant when used with time control
- Clear back-lit digital display
- Temperature range 5-30°C
- 7-year no quibble warranty

Benefits

- Easy to install and use
- Bigger energy savings
- Trouble free wireless connection with minimal pairing procedures

Wiring guides



Technical specifications

HRT4-ZW

Power supply	2 x AAA alkaline batteries
Pollution degree	Degree 2
Temperature accuracy	+/- 0.5°C
Temperature range	5 °C - 30 °C
Operating temperature range	0° C - 40 °C
Case material	Thermoplastic flame retardant
Dimensions	86 x 86 x 36.25mm
Rated impulse voltage	Cat 2 – 2500v
Enclosure protection	IP30
Design standard	EN60730 – 2-9
Transmitter frequency	868 MHZ
ERP rating	CLASS IV (2%)

ASR-ZW

Power supply	230 V AC 50 Hz
Contact type	Micro disconnection Voltage free
Contact rating	3 (1) Amps 230 V AC
Pollution degree	Degree 2
Operating temperature range	0° C - 40 °C
Case material	Thermoplastic flame retardant
Dimensions	86 x 86 x 36.25mm
Rated impulse voltage	Cat 2 – 2500v
Enclosure protection	IP30

HRT4-B

Power supply	2 x AAA alkaline batteries
Contact type	Micro disconnection Voltage free change-over
Contact rating	3 (1) Amps 230 V AC
Pollution degree	Degree 2
Temperature accuracy	+/- 0.5°C
Temperature range	5 °C - 30 °
Case material	Thermoplastic flame retardant
Dimensions	86 x 86 x 36.25mm
Rated impulse voltage	Cat 2 – 2500v
Enclosure protection	IP30
Design standard	EN60730 – 2-9



HRT4-A, HFT4 and HTT4

Mains operated electronic room thermostats

This range of purpose designed room thermostats from Secure offer the latest energy saving control technology. Making them suitable for use in most types of heating system that respond to a 230 volt mains electrical On/Off signal. They are also perfect partners for use with Secure programmers and zone valves.

HTT4	NU5720401001
HFT4	NU5720301001
HRT4-A	NU5670201005



HTT4 – Tamper proof room thermostat

A tamper proof version of the HRT4-A for use in public areas or other situations where subsequent temperature adjustment is not required/desirable.



HFT4 – Frost thermostat

Electronic mains operated frost protection thermostat. Ensures heating will switch on whenever frost conditions are detected.



HRT4-A – Room thermostat

Mains powered, electronic unit with load compensation for new and replacement installations. Temperature setting range 5-30 °C.

Applications

- New installations
- Replacement of old or inefficient thermostats
- System upgrades to add a room thermostat
- Frost protection
- Multi occupancy buildings
- Control of most domestic gas or oil-powered central heating systems
- Control of additional heating zones
- Combination ('combi') boilers
- Control of solid-fuel heating systems

Benefits

- Easy to install and use
- Peace of mind that thermostat is tamper proof
- Benefits of weather/frost protection
- Reduce temperature swing that normally occurs with older style thermostats
- Increased energy savings

Features

- Wireless or wired (battery operated) versions
- Load compensation
- Boiler Plus compliant when used with a time control
- Clear back-lit digital display
- Set temperature displayed; actual temperature displayed if dial is pressed
- Temperature setting range 0-20°C
- Industry standard wall plate
- Internal setting dial
- Standard fixing centres
- 7-year no quibble warranty

Technical specifications

Electrical

Power supply	230v 50Hz
Contact rating	3 (1) Amps 230V AC
Contact type	Micro-disconnection
Rated impulse voltage	Cat 2 – 2500v

Environmental

Pollution degree	Degree 2
Temperature accuracy	+/- 0.5°C (at 21 °C with 0.5 amp load)
Temperature range	HRT4-A – 5-30°C HTT4 – 10-30°C HFT4 – 0-20°C

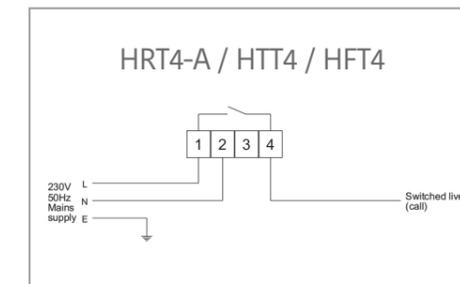
Mechanical

Case material	Thermoplastic flame retardant
Dimensions	86 x 86 x 36.25mm

Compliance

Enclosure protection	IP30
Design standard	EN60730 – 2-9
ERP rating	CLASS IV (2%)

Wiring guides



HCT2

Hot water cylinder thermostat

With an adjustable temperature range of between 20°C to 90°C, the Secure cylinder thermostat is suitable for mounting on either domestic hot water cylinders, or large heating pipes.

This cylinder thermostat is fitted to the hot water cylinder to ensure that water temperature is controlled to a safe temperature, whilst also saving energy by stopping uncontrolled heating of the hot water.

This type of cylinder stat is intended for use as part of a fully pumped heating and hot water system, in conjunction with motorised zone valves, room thermostat, and two-channel central heating programmer.



HCT2 NU5680201000

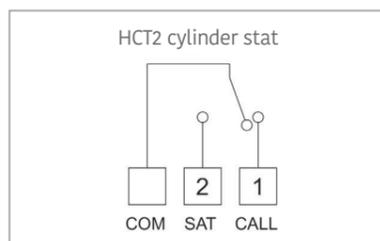
Applications

- Heating and hot water system
- Stored hot water

Features

- 230V mains operation
- Adjustable temperature range 20°C to 90°C
- 16 Amp changeover (S.P.D.T.) contacts
- Switching differential of approximately 8°C
- Bimetallic sensor

Wiring guides



ZonePlus Z Series

Motorised valves

A range of motorised valves that combine proven controls technology with the latest Secure design features, permitting easy installation and maintenance. There are three models in the range: 22mm and 28mm two-port spring return valves and a 22mm three-port mid position diverter valve.

Z222	NU5711010222
Z228	NU5711010228
Z322	NU5731010322

Applications

- The control of the hot water circulation in fully pumped wet domestic central heating systems

Benefits

- No need to drain down system
- High quality components

Features

- Easily replaceable actuator
- Industry standard fittings and wiring
- Extra long 1.4 metre cable
- Reliable Hansen Class F synchron motor
- Quick change actuator design
- Supplied with compression fittings
- Standard 22mm and 28mm fittings
- Auxilliary switches
- 2-port valves fitted with auxillary switches to switch pump and boiler
- 2 years no quibble warranty



ZonePlus Z222

22mm spring return zone valve with auxiliary switch complete with compression fittings.



ZonePlus Z228

28mm spring return zone valve with changeover auxiliary switch complete with compression fittings.



ZonePlus Z322

3 port 22mm mid-position diverter valve complete with compression fittings

Technical specifications

Electrical

Purpose of control	Electronic timer (independently mounted)
Contact type	Micro-disconnection

Environmental

Maximum ambient temperature	50°C
Maximum fluid temperature	88°C
Maximum differential pressure	0.5 bar
Maximum static pressure	8.6 bar
Timing accuracy	±5%

Mechanical

Cover	Thermoplastic
Valve body	Brass
Pipe fitting size	Z222 & Z322 – 22mm compression (supplied) Z228 – 28mm compression (supplied)

SIR Series

Electronic timers (Electrasaver 2)

The SIR range of simple push button electronic timers, that save energy by remembering to switch off an appliance, when you might forget. Each press of the button cycles the timer through the available periods, as shown by indicator LEDs. The connected load is automatically switched off at the end of the preset time, or it can be switched off manually using the push button. Large energy savings are possible by adding this simple device to any electrical appliance, up to 3 kw (resistive). These units are perfect as boiler override or extension timers and can be used on panel heaters, immersion heaters, heated towel rails, and oil-filled radiators.

SIR020	NU5311015000
SIR021	NU5311030000
SIR022	NU5313120000



SIR020

15/30/60-minute timer



SIR021

30/60/120-minute timer.



SIR022

2/4/6-hour timer.

Application

- Electrical switching
- Timer and scheduling to control any electrical appliance up to 3 kw, such as:
 - Immersion heaters
 - Panel heaters
 - Heated towel rails
 - Oil-filled radiators
 - Forced ventilation in conference rooms

Benefits

- Wiring is simple with easy access terminals
- 7-year no quibble warranty

Features

- Switches loads up to 3 kw (resistive)
- Flush or surface mounting
- 'Countdown' LED indicator light

Technical specifications

Electrical

Purpose of control	Electronic timer (independently mounted)
Contact type	Micro-disconnection
Contact rating	13 (3) A, 230 V AC suitable for loads up to 3 kw (resistive)
Control action	Type 2B
Software class	Class A
Operation time limitation	Intermittent
Timing accuracy	±5%
Timer boost period	SIR020: 15/30/60 minutes SIR021: 30/60/120 minutes SIR022: 2/4/6 hour

Mechanical

Dimensions (W x H x D)	87 x 85 x 19mm (flush mount) 85 x 85 x 44mm (surface mount)
Weight	0.2 kg (approx.)
Case material	Flame-retardant thermoplastic
Mounting	Single-gang surface mount/flush box, minimum depth 25mm (UK)/35mm (Continental Europe)

Environmental

Impulse voltage rating	Cat II 2500V
Enclosure protection	IP30
Pollution Degree	Degree 2
Operating temperature range	0° C to +35° C

Compliance

Standards	EN 60730-2-7
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The new E7+ from Secure is the latest version of the Electronic 7 water heater controller. E7+ is designed to control one or two 3kW immersion heaters, utilising off-peak electricity tariffs to provide a full tank of hot water whenever required. Each heater can be programmed separately for maximum energy saving and control.

The E7+ can be controlled by the Secure Bluetooth-enabled app, within a property, and there is an optional plugin Wi-Fi adaptor that will turn the E7+ into a truly smart unit you can control from anywhere. This app is also used by our range of smart-capable programmable thermostats - C1727 and H3747.



Secure heating control app

Can control water heating via Bluetooth or Wi-Fi*



* Requires a Wi-Fi adaptor

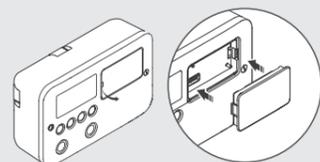
E7+

SCE100-000



Find out more at:
www.securemeters.com/e7+

Easy to upgrade to fully smart

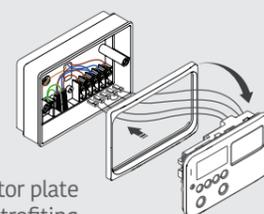


Add-on:



* Optional Wi-Fi adaptor to switch from Bluetooth to Wi-Fi if you need it

Easy to retrofit



Adaptor plate
for retrofitting

Upgrade from our traditional immersion heater controls



Economy 7 quartz



E7 quartz 2 hour



Electronic 7

Applications

- Designed for modern tariffs as well as cheap overnight rates, such as Economy 7 and other off-peak tariffs or similar
- Future ready for Time of Use Tariffs
- Can be set to accommodate utility tariffs that offer cheaper electricity periods throughout the day
- Suitable for use with single, dual, or twin element immersion heaters

Benefits

- Easy to retrofit using the provided adaptor plate and fully interchangeable with all Horstmann/Secure Economy 7 controllers
- No Wi-Fi necessary for local control of hot water via app using Bluetooth
- New streamlined compact design
- Easy to upgrade to full smart (remote) control using Wi-Fi adaptor
- Uses the same app as the C1727 and H3747 smart-capable programmable thermostats
- Tamper-proof programme security feature for landlords
- 7 year no quibble warranty

Features

- Bluetooth-enabled app for local control (Android and IOS)
- Full smart control from anywhere with optional Wi-Fi adaptor that does not need a hub or gateway
- Full 7-day programming with up to 48 time periods * only via Wi-fi and dynamic tariffs
- Manual Boost button - ideal for 30 minutes, 1, or 2-hour top up without changing the set program
- Programmable boost - can be programmed so that it will heat only a small part of your tank at a set time each day
- Electronic on/off switch
- Measures estimated energy consumed for boost and off-peak in kWh via the app
- Includes 7-day programmer with 3 On Offs straight from the device, more can be added via the app

Technical specifications

Electrical

Contact rating	13 Amps 230V AC suitable for immersion heaters up to 3kw
Contact type	Micro-disconnection on control
Supply	230V 50Hz

Environmental

Pollution degree	Degree 2 normal situations
Moisture protection	Ordinary
Enclosure protection	IP30

Features

Shock protection	Class 1
Live parts	Enclosed
Operating temperature range	0°C to 35°C
Battery reserve	Approximately 2 years total power disconnection
Clock	am/pm Indication Winter/Summer indication
Programme options	Off-peak - up to 48 *via Wi-Fi On/Off time periods; Boost - programmable automatic boost and 1/2, 1, and 2-hour manual boost

Mechanical

Dimensions	170 x 115 x 60mm (excluding rocker switch)
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Radio

Compliance	Bluetooth BLE compliant
Operating frequency	2.4 GHZ
RF range	~60m, line of sight

Compliance

Product Standard/Safety: BSEN / EN 60730-1, BSEN / EN 60730-2-7
RED Radio: ETSI EN 300 328 RED EMC: ETSI EN 301 489-1, ETSI EN 301 489-17, BS EN 60730-2-7

BX2000

Water heating boost control

This simple boost control is intended for use with electric water heating systems when the immersion heater(s) are controlled by the Electricity Company's Radio Teleswitch, Radio Telemeter or Tariff time-switch.

The BX2000 allows the user to 'top up' the hot water if extra supplies are needed during the daytime, with the main water heating taking place overnight, using off-peak electricity.

BX2000

NU5300209301



Applications

- For use with Off-peak overnight tariffs - with or without an extra day time Off-peak period - where a tankful of hot water is available each morning and a boost timer is required to provide a 'top-up' facility during the day time

Benefits

- Makes the most effective use of the latest cheap-rate tariff structures, electronically
- Always gives priority to Off-peak supply
- Simplified installation
- Easy one-hour or two-hour boost

Features

- 1-hour or 2-hour boost.
- Automatically cancels any boost that has been selected prior to the Off-peak supply becoming available
- Indicator lights show when 'boost' or 'Off-peak' are operational
- Separate indicator lights for 1 and 2-hour boost selection
- Separate boost cancel button
- Incorporates 2 double pole switches - 1 for 24-hour supply and 1 for Off-peak
- Accepts all incoming and outgoing wiring for single, dual or 2 separate 3kw immersion heater applications

Technical specifications

Electrical

Contact rating	13 Amps 230V AC Suitable for immersion heaters up to 3kw
Contact type	Disconnection to immersion heater on double-pole switch
Power supply	230 V 50Hz

Environmental

Pollution degree	Degree 2
Enclosure protection	IP30

Features

Shock protection	Class 1
Live parts	Enclosed
Operating temperature range	0 °C to 35 °C
Time period	1 or 2 hours

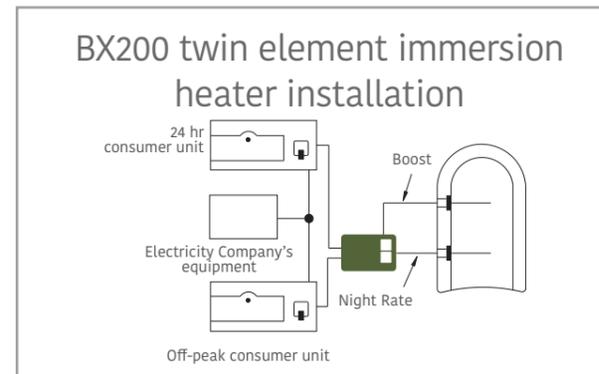
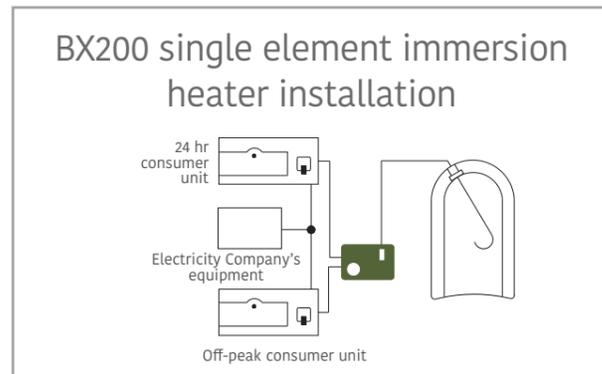
Mechanical

Dimensions	170 x 115 x 62mm
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Compliance

British standards	Designed to meet BS-EN 60730-2-7
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Schematic system diagrams



The law:

The Domestic Building Services Compliance Guide has been amended for 2018.

The aim of the legislation, known as Boiler Plus, is to improve the efficiency of installed heating systems, particularly through the installation of additional energy saving measures when replacing a boiler. Boiler Plus is applicable in England only.

Boiler Plus regulations:

When installing a new or replacement boiler you need to:

Ensure that the system meets minimum standards for boiler interlock, time and temperature control, as would be done for new system.

When installing a gas combination boiler only in existing dwellings a minimum of one of the following should also be installed:

- Flue gas heat recovery system
- Weather compensation
- Load compensation
- Smart thermostat with automation & optimisation

For more info and queries around BoilerPlus compliancy call our technical support team:

01962 826213

Mon to Thurs: 8:30 – 17:00

Fri: 8:30 – 16:30

(You can leave a message outside these hours)



Compliant products:

If you are installing a gas combination boiler (including LPG) to meet Boiler Plus, any product from the C-Stat range or our new range smart controls.



C1727



H3747



C-Stat 17-M

C-Stat 17-B

Smart-capable controls range (C1727 and H3747)

Smart controls range (C1727 and H3747) are 2 and 4 channel receiver/PTD units that are wireless-enabled and can be controlled by a companion app. They use load compensation technology to minimise boiler cycling and reduce flow temperatures. It has Optimum Start-Stop feature for extra energy saving.

C-Stat programmable room thermostat

The C-Stat is an electronic programmable room thermostat that combines time and temperature control in a stylish design that features simple, menu driven programming and a clear, back lit user interface. Among its many features the C-Stat has an (optional) optimum start function.

C-Stat uses load compensation technology to minimise boiler cycling and reduce flow temperatures.

Models in the range feature 7-day programming with up to six temperature settings per day. The intuitive interface ensures they are easy to set up and use.

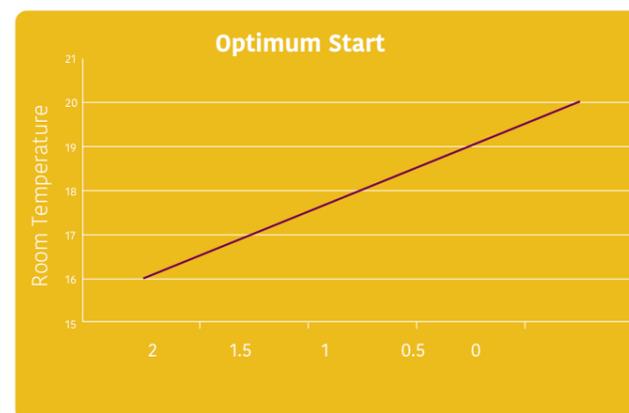
The Optimum Start feature:

This (optional) setting will allow the C-Stat and smart controls range (C1727 and h3747) to anticipate the next set temperature and switch on the central heating up to 2 hours in advance to ensure the set room temperature has been reached by the time it is due to take effect.

As a consequence, the 'switch on' time could take place anywhere between 2 hours and zero minutes before the set time.

It is assumed that the heating can increase at a rate of 2°C per hour. Therefore, the maximum extent of this setting is that it can switch on up to 2 hours before the set temperature and raise the temperature by 4°C (with an assumed warm up rate of 2°C per hour).

The 2-hour optimisation period and the 2°C per hour assumed



temperature rise are non-adjustable. The optimisation process will be cancelled if any overrides are used during the 2-hour period of operation.

The optimum stop feature

This (optional) feature analyses the temperature rise and fall pattern and accordingly turns the heating off a bit earlier than the scheduled time, although ensuring that a comfortable temperature is always maintained. This effect may not be noticeable but is a great measure to save energy and bring down your fuel expenses.

Benefits

For units without an optimum start or delayed start feature, normal practice is to set the heating to come on approximately 1 hour before it is expected to be up to the set room temperature.

For example, if a householder gets up at 6.30am, the heating will typically be set to come on at 5.30am to allow the house to be warm by 6.30am.

The benefit of the optimum start feature is that the heating switch on time is calculated based on the temperature sensed 2 hours before the set time.

The actual switch on time is then delayed as long as possible whilst still achieving the correct required temperature at the set time.

In mild weather conditions, the start time will be delayed until the last possible moment achieving considerable (energy) savings over a fixed 1 hour warm up time.

By contrast, in exceptionally cold weather conditions, the heating may be brought on up to 2 hours before the time required but this will not be normal (in the UK) and savings should outweigh the extra heating needed in exceptionally cold conditions.

The added benefit of optimum start is that comfort conditions will be improved as the heating will be better controlled and less likely to over

As a consequence the 'switch on' time could take place anywhere between 2 hours and zero minutes before the set time.

It is assumed that the heating can increase at a rate of 2°C per hour.

Therefore, the maximum extent of this setting is that it can switch on up to 2 hours before the set temperature and raise the temperature by 4°C (with an assumed warm up rate of 2°C per hour).

The 2 hour optimisation period and the 2°C per hour assumed temperature rise are non adjustable. The optimisation process will be cancelled if any overrides are used during the 2 hour period of operation.

If you're replacing a central heating programmer you could just fit what was there before, or go one better and fit a Secure control. This handy guide shows you which of our programmers, from a straightforward electro mechanical unit to a 2-channel 7-day electronic programmer, is the perfect match. Often you can simply plug in without even having to rewire. Whichever one you select, you can be sure that it's well designed, beautifully engineered and bang up to date with the latest spec. You won't be replacing it in a hurry.

Using the Guide

First locate the existing programmer or timeswitch in the left hand column of the Programmer compatibility Guide. Then simply follow the colour coded line over to the far right to find the recommended Horstmann replacement. The colour of the line indicates if it is a direct plug-in replacement or not.

Wiring Comparison Table

Before removing any existing programmer it is essential to make a note of wire colours, terminal positions and numbers in relation to the existing backplate. The charts only include programmers or timeswitches where wiring changes are necessary when fitting our recommended replacement. Where a direct plug-in replacement is available or where terminal connections do not change, the appropriate replacement is shown on the Programmer Compatibility Guide.

Installation and connection should only be carried out by a suitably qualified person and in accordance with the current edition of the IET wiring regulations. The information contained in this manual is intended for guidance only and is believed to be correct. Secure Meters (UK) Limited can accept no liability for any errors or omissions and reserve the right to make changes at any time without notice.

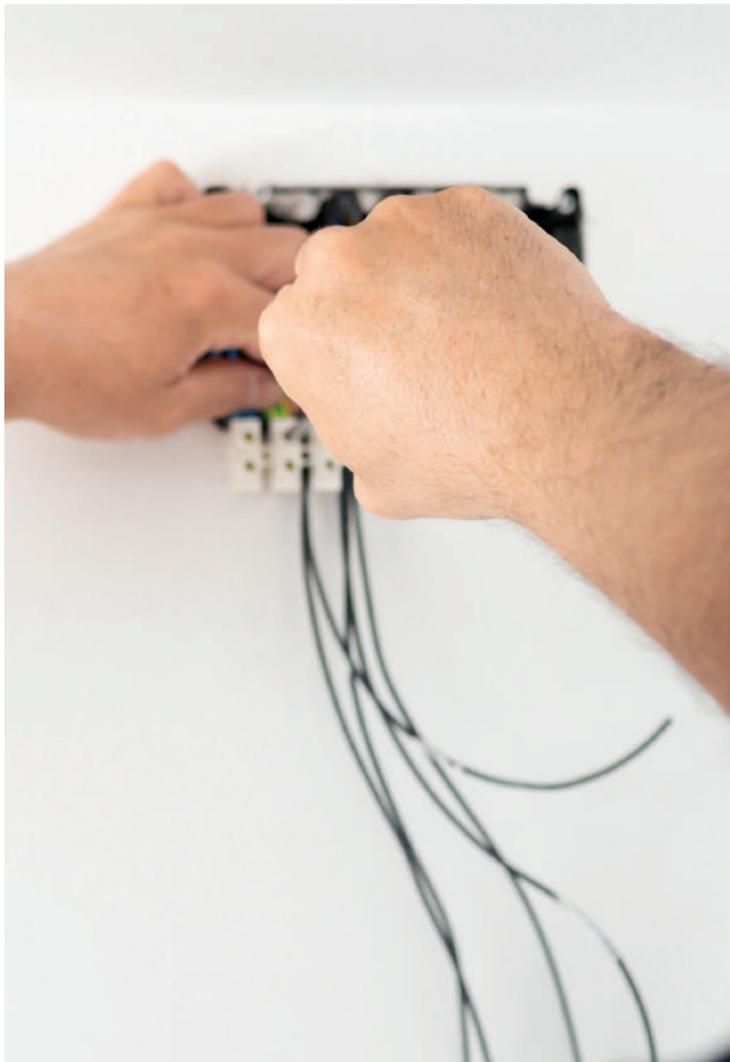


Download our installer app

Make installations and retrofitting easier



Instantly check the wiring for time switches, programmers, thermostats and immersion timers. Includes current and legacy products.



KEY: Direct plug in replacement with simple wiring changes Replacement backplate but switch lives remain the same Replacement and re-wiring of backplate required

Please see wiring comparison tables located on product pages

Manufacturer	Model	Electro-mechanical	Electronic	24 Hour	5/2 day	7 day	Single Channel	Two Channel	Single Circuit	Multi-Channel	Two Circuit	1.5 Circuits	Timeswitch	Mini-Programmer	Programmer	Common Time Base	Recommended replacement
DANFOSS	FP735Si																H3747
RANDALL	FP715 Si																C1727
	102																C1727
	102E																C1727
	102E5																C1727
	102E7																C1727
	103																C1727
	103E																C1727
	103E5																C1727
	103E7																C1727
	3001																H3747
	3002																H3747
	3060																C1727
	4033																C1727
	3020P																C1727
	911																C1727
	917																C1727
	922																C1727
	971																C1727
	972																C1727
	CP15																C1727
	CP75																C1727
	CP715																C1727
	FP15																C1727
	FP75																C1727
	FP715																C1727
	FP975																H3747
	MP15																C1727
	MP75																C1727
	SET1/SET1E																H3747
	SET2/SET2E																H3747
	SET3E																H3747
	SET3M																H3747
	SET4																H3747
	SET5																H3747
	TS15																C1727
	TS75																C1727
	TS715																C1727
	TS975																C1727
DRAYTON/	LP241Si																C1727
ACL/	LP522Si																C1727
INVENSYS	LP722Si																C1727
	LP111Si																C1727
	LP711Si																C1727
	MT711R																C1727
	MT721R																C1727
	MT742R																H3747
	LP 111																C1727
	LP 112																C1727
	LP 241																C1727
	LP 522																C1727
	LP 711																C1727
	LP722																C1727
	LS 111																C1727
	LS 112																C1727
	LS 241																C1727
	LS 522																C1727
	LS 711																C1727
	LS 722																C1727
	FP																C1727
	MP																C1727
	TC																C1727
	Switchmaster 300																C1727
	Switchmaster 320/350																C1727
	Switchmaster 400																C1727
	Switchmaster 600																C1727
	Switchmaster 805																C1727

Programmer compatibility guide

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Please see wiring comparison tables located on product pages

Manufacturer	Model	Electro-mechanical	Electronic	24 Hour	5/2 day	7 day	Single Channel	Two Channel	Single Circuit	Multi-Channel	Two Circuit	1.5 Circuits	Timeswitch	Mini-Programmer	Programmer	Common Time Base	Recommended replacement
DRAYTON /ACL /INVENSYS	Switchmaster 900/905	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	Switchmaster 980	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	Switchmaster Sonata	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	SM1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	SM2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	Tempus 1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	Tempus 2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	Tempus 3	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	Tempus 4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	Tempus 6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	Tempus 7	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	Tempus 6-2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	Tempus 7-2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	Tempus 1-Mk2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	Tempus 2-Mk2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
EPH	R17	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	T17	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	T27	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	R27-HW	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	R37	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	H3747
	R47	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	H3747
ESI	ES1247B	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	ES2247B	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	ES3247B	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	H3747
GLOWORM	Masterminder	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	ST1000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	H3747
	ST1501	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	H3747
	ST1507	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	H3747
	ST6100A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	ST6100C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	ST6200A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	ST6300A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	ST6400C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	ST6450B	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	ST699B Fully Pumped	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	ST699B Gravity	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	ST7000A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	ST7000B	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	ST7100	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	ST799A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	ST9100A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	ST9100C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
ST9400A	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727	
ST9400C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727	
ST9500C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	H3747	
HORSTMANN	423 Amethyst 10	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	423 Amethyst 7	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	423 Diamond	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	423 Emerald	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	423 Pearl Auto	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	424 Coral	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	424 Diamond	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	424 Emerald	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	424 Gem	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	424 Pearl Auto	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	425 Coronet	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	H3747
	425 Diadem	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	H3747
	425 Tiara	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	H3747
	517	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	H3747
	525	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	H3747
	527	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	H3747
	Centaur SC1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	Centaur SC7	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	Centaur TC1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	Centaur TC7	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	Centaur Plus C27	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
Service Plus S27	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727	
Channel Plus H27	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	H3727	
MYSON	Microtimer One	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	Microtimer Seven	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	MEP1C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	MEP2C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727

Programmer compatibility guide

KEY: Direct plug in replacement with simple wiring changes Replacement backplate but switch lives remain the same Replacement and re-wiring of backplate required

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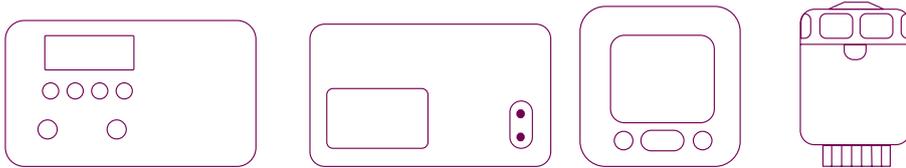
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POTTERTON	EP 2000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727	
	EP2001/EP2002	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727	
	EP3000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727	
	EP3001/EP3002	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727	
	EP4000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727	
	EP4001/EP4002	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727	
	EP5001/EP5002	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727	
	EP6000/EP6002	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727	
	Mini Minder	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	Mini Minder E	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	Mini Minder ES	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
	SALUS CONTROLS	EP100	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
		EP101	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
		EP200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	C1727
SANGAMO	EP210</																	

Wiring comparison - programmers

Wiring comparison - timeswitches

Manufacturer	Model	C1727								H3747									
		MAINS			C1727					MAINS			H3747						
		E	N	L	HW OFF	COM	HW OF ZONE 2 ON	CH ON	SPARE	E	N	L	1 ON	COM	2 ON	COM	HW or ZONE 3 ON	4 ON	SPARE
E	N	L	1	2	3	4	NONE	E	N	L	1	2	3	4	5	6	NONE		
Danfoss Randall	102	E	5	6			1	2											
Danfoss Randall	102E	E	5	6			1	2											
Danfoss Randall	102E5/102E7	E	5	6			1	2											
Danfoss Randall	3020P/3060	B	1,7	6			4	2	3,5										
Danfoss Randall	4033	B	7	6	5		4	2											
Danfoss Randall	701	E	N	L	4		3	1											
Danfoss Randall	702	E	N	L	4		3	1											
Danfoss Randall	922	E	N	L	1		3	6											
Danfoss Randall	972	E	N	L	1		3	6											
Drayton/ACL/Invensys	LS112	E	N	L	2		3	4											
Drayton/ACL/Invensys	FP	E	2	1	8		6	10	3										
Drayton/ACL/Invensys	MP	E	2	1			6	10	3,7,8										
Drayton/ACL/Invensys	Switchmaster 320	E	N,2	L			3	1											
Drayton/ACL/Invensys	Switchmaster 350	E	N,2	L			3	1											
Drayton/ACL/Invensys	Switchmaster 400	E	N	L			3	1	2										
Drayton/ACL/Invensys	Switchmaster 600	E	N	L			3	1	2,4										
Drayton/ACL/Invensys	Switchmaster 805	E	N	L	4		3	1											
Drayton/ACL/Invensys	Switchmaster 900	E	N	L	4		3	1	A,B,C										
Drayton/ACL/Invensys	Switchmaster 9000	E	N	L	4		3	1	A,B,C										
Drayton/ACL/Invensys	Switchmaster 9001	E	N	L	4		3	1	A,B,C										
Drayton/ACL/Invensys	Switchmaster 905	E	N	L	4		3	1											
Drayton/ACL/Invensys	Switchmaster Sonata	E	N	L	3		1	4											
Drayton/ACL/Invensys	SM2	E	N	L	1		3	4											
EPH	A27-HW	E	N	L	1		3	4											
EPH	R27-HW	E	N	L	1		3	4											
ESI	ES2247B	E	N	L	1		3	4											
Honeywell	ST699B - Fully Pumped	E	N	L	7		6	3											
Honeywell	ST699B - Gravity	E	N	L			8	3											
Honeywell	ST7000A	E	N	L	2		3	4											
Honeywell	ST7100	E	N	L	7		8	5											
Honeywell	ST799A	E	N	L	7		6	3											
Honeywell	ST9400A	E	N	L	1		3	4											
Honeywell	ST9400C	E	N	L	1		3	4											
Honeywell	ST9500C	E	N	L	1		3	4											
Horstmann	423 Amethyst 10	E	2,3	1	4		5	7											
Horstmann	423 Amethyst 7	E	2,3	1	4		5	7											
Horstmann	423 Diamond	E	N	L			2	4	5,6										
Horstmann	424 Coral	E	2,3	1			8	4	5,6										
Horstmann	424 Diamond	E	N	L/1			2	4	5										
Horstmann	424 Gem	E	2,3	1	6		4	7											
Horstmann	Centaur Plus C21/C27	E	N	L	1		3		4										
Horstmann	Service Plus S21/S27	E	N	L	1		3		4										
Horstmann	Channel Plus H21/H27	E	N	L	3	2	1	4											
Myson	Microtimer One	E	N	L	7		6	3											
Myson	Microtimer Seven	E	N	L	7		6	3											
Myson	MEP2C	E	N	L	1		3	4											
Potterton	EP2000	E	N	L	1		3	4	A,B,C,D										
Potterton	EP2001	E	N	L	1		3	4	A,B,C,D										
Potterton	EP2002	E	N	L	1		3	4	A,B,C,D										
Potterton	EP3000	E	N	L	1		3	4	A,B,C,D										
Potterton	EP3001	E	N	L	1		3	4	A,B,C,D										
Potterton	EP3002	E	N	L	1		3	4	A,B,C,D										
Potterton	EP6000	E	N	L	1		3	4	A,B,C,D										
Potterton	EP6002	E	N	L	1		3	4	A,B,C,D										
Sangamo	M5	E	4,5	3			1	6											
Sangamo	Choice PR2n	E	N	L	1		3	4											
Salus controls	EP200	E	N	L	1		3	4											
Salus controls	EP210	E	N	L	1		3	4											
Sunvic	MP2	E	N	L		HW OFF			CH ON										
Sunvic	SP100	E	N	L	1		2	5	S,S										
Sunvic	SP25	E	N	L	1		2	5	S,S,4										
Sunvic	SP30	E	N	L	1		2	5	S,S,4										
Sunvic	SP50	E	N	L	1		2	5	S,S										
Timeguard/Smiths	Centroller 100	E	N	L			3	2	1,4										
Timeguard/Smiths	Centroller 60	E	1	2			5	4	3,6										
Timeguard/Smiths	Centroller 70	E	1	2			5	4	3,6										
Timeguard/Smiths	Centroller 90	E	1	2			5	4	3,6										
Timeguard/Smiths	TRT036	E	N	L		NC2			NO1										
Towerchron/Grasslin	T2002	E	N	L			HW ON		CH ON										
Towerchron/Grasslin	T2002Q	E	N	L			HW ON		CH ON										
Towerchron/Grasslin	T2003	E	N	L		HW OFF		HW ON	CH ON										
Towerchron/Grasslin	T2003Q	E	N	L		HW OFF		HW ON	CH ON										
Venner	Venetro 80	E	N,1,3,4	L				2		5									
Venner	Venetro 80M	E	N,3	L	1			2	5										
Venner	Venetro 80P	E	N,1,3	L				2	A/S	A/S,4,5									
Venner	Venner T20	E	N	L				1	4										
Venner	Venner T30	E	N	L	1		2	4											

Manufacturer	Model	MAINS					C1727				
		E	N	L	1 HW OFF	2 COM	3 HW or ZONE 2 ON	4 CH ON	SPARE		
		E	N	L	1	2	3	4	N/A		
Danfoss Randall	103	4	5	6		3			1	2	
Danfoss Randall	103E	4	5	6		3			1	2	
Danfoss Randall	103E5	4	5	6		3			1	2	
Danfoss Randall	103E7	4	5	6		3			1	2	
Danfoss Randall	911	E	N	L		5			6	2	
Danfoss Randall	917	E	N	L		5			6	2	
Danfoss Randall	971	E	N	L		5			6	2	
Danfoss Randall	TS15	E	N	L		1			4	3	
Danfoss Randall	TS75	E	N	L		1			4	3	
Danfoss Randall	TS715	E	N	L		1			4	3	
Drayton/ACL/Invensys	LP111	E	N	L		1			3	4	
Drayton/ACL/Invensys	LP711	E	N	L		1			3	4	
Drayton/ACL/Invensys	LS111	E	N	L		1			3	4	
Drayton/ACL/Invensys	LS711	E	N	L		1			3	4	
Drayton/ACL/Invensys	Switchmaster 300	E	N,2	L		4			1		
Drayton/ACL/Invensys	Switchmaster 980	E	N	L		4			1		
Drayton/ACL/Invensys	SM1	E	N	L		1			3	4	
Drayton/ACL/Invensys	TC	E	2	1					7		
Drayton/ACL/Invensys	Tempus 1	E	N	L		1			2	4	
Drayton/ACL/Invensys	Tempus 2	E	N	L		1			2	4	
Drayton/ACL/Invensys	Tempus 1-Mk2	E	N	L		1			3	4	
Drayton/ACL/Invensys	Tempus 2-Mk2	E	N	L		1			3	4	
EPH	R17	E	N	L		1			4		
EPH	T17	E	N	L		1			4		
ESI	ES1247B	E	N	L		1			4		
Honeywell	ST6100A	E	N	L		1			4	3	
Honeywell	ST6100C	E	N	L		1			4	3	
Honeywell	ST7000B	E	N	L					3		
Honeywell	ST9100A	E	N	L		1			4	3	
Honeywell	ST9100C	E	N	L		1			4	3	
Horstmann	423 Emerald	E	N	L		3			4	5,6	
Horstmann	423 Pearl Auto	E	N	L		3			4	5,6	
Horstmann	424 Emerald	E	N	L,1		3			4	5	
Horstmann	424 Pearl Auto	E	N	L,1		3			4	5	
Horstmann	Centaur SC1	E	N	L		1			3	4	
Horstmann	Centaur SC7	E	N	L		1			3	4	
Horstmann	Centaur Plus C11/C17	E	N	L		2			4		
Horstmann	Service Plus S11/S17	E	N	L		3			4		
Horstmann	Channel Plus H11/H17	E	N	L		2			4		
Myson	MEP1C	E	N	L		3			4	1	
Potterton	EP4000	E	N	L		5			4	A,B,C,D	
Potterton	EP4001	E	N	L		5			4	A,B,C,D	
Potterton	EP4002	E	N	L		5			4	A,B,C,D	
Potterton	EP5000	E	N	L		5			4	A,B,C,D	
Potterton	EP5002	E	N	L		5			4	A,B,C,D	
Salus Controls	EP100	E	N	L					3		
Salus Controls	EP101	E	N	L		4			3	2	
Sangamo	M6	E	4	6		3			1		
Sangamo	Choice PR1n	E	N	L		1			3		
Sangamo	Sunvic SP20	E	N	L		3			5	5	
Sangamo	SP35	E	N	L							



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