



HORSTMANN



## 425 SERIES Electro-mechanical Programmable

Horstmann's best selling, big value 425 Series programmers are the simplest way to control hot water and central heating in the home.

Simple to use with easily understood settings adjusted in seconds

Easy to install using a nine pin backplate

Advance control to allow manual override ON or OFF

Programme options: ON, OFF, All Day or Auto

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## SPECIFICATION

### 425 TIARA & DIADEM

**CONTACT RATING**  
Double circuit 6 (2.5) Amps  
230V AC

**CONTACT TYPE**  
Micro-disconnection changeover  
Voltage free (Tiara only)

**MOTOR**  
Synchronous 230V 50Hz  
Double insulated

**POWER CONSUMPTION**  
2.5W

**DIRT PROTECTION**  
Normal situations

**MOISTURE PROTECTION**  
Ordinary

**ENCLOSURE PROTECTION**  
IP 20

**MAXIMUM OPERATING TEMPERATURE**  
+55°C

**DIAL SETTING**  
2 ON, 2 OFF tappets  
Min. ON/OFF period 45 mins

**DIMENSIONS**  
152mm x 107mm x 39mm

**MOUNTING**  
9 Pin wall fixing plate

### 425 CORONET

**CONTACT RATING**  
Single circuit 13 (6) A 230V AC

**CONTACT TYPE**  
Micro-disconnection changeover  
Voltage free

**MOTOR**  
Synchronous 230V 50Hz  
Double insulated

**POWER CONSUMPTION**  
2.5W

**DIRT PROTECTION**  
Normal situations

**MOISTURE PROTECTION**  
Ordinary

**ENCLOSURE PROTECTION**  
IP 20

**MAXIMUM OPERATING TEMPERATURE**  
+55°C

**DIAL SETTING**  
2 ON, 2 OFF tappets  
Min. ON/OFF period 45 mins

**DIMENSIONS**  
152mm x 107mm x 39mm

**MOUNTING**  
9 Pin wall fixing plate



## 425 DIADEM

This twin circuit, hot water and central heating programmer, with indicator lights, has 16 programmes available for fully pumped systems, including independent programming of heating and hot water and 10 programmes for gravity HW/pumped CH systems.

The Diadem is ideal for gravity systems and fully pumped systems with zone valves.

## 425 TIARA

The Tiara has all the capability and features of the 425 Diadem, but without the indicator lights.

The Tiara is ideally suited for both gravity systems and fully pumped systems with either mid-position or zone valves.

## 425 CORONET

A single circuit timeswitch for straightforward, accurate time control.

The 425 Coronet is particularly suitable for combi boiler systems, warm air systems and extra zone control.

	Single Circuit	Twin Circuit	Permanent ON/OFF	ON all day	ON/OFF twice a day	Combi-boiler	Pumped Systems	Gravity HW	Independent CH/HW	Immersion Heaters	Indicator Lights
425 Diadem		●	●	●	●		●	●	●		●
425 Tiara		●	●	●	●		●	●	●		
425 Coronet	●		●	●	●	●				●	

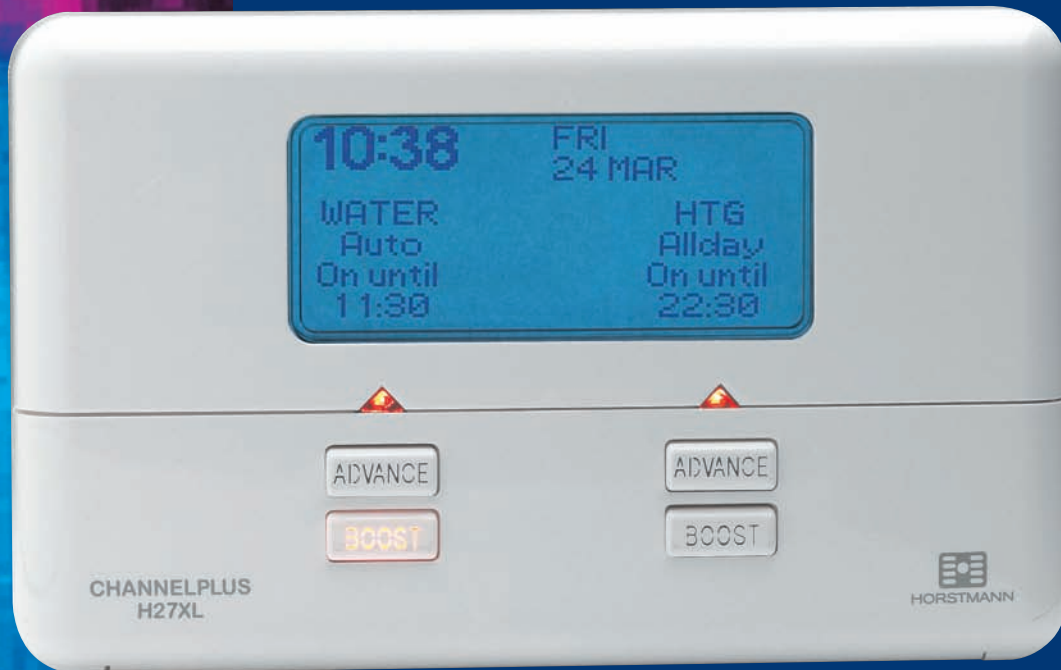


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## CHANNELPLUS XL SERIES 2 Electronic Programmers

Electronic programmers that offer up to four independent channels and feature a clearly read display and ease of programming.

1, 2, 3 or 4 channels

24 hour or 7 day

Back-lit LCD display

Preset clock

Automatic Winter/Summer time changes

Simplified menu driven programming

5 year warranty



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## SPECIFICATION

**CONTACT RATING**  
3 (1) Amps 230V AC

**CONTACT TYPE**  
Micro-disconnection changeover  
Voltage free (not H37XL)

**Type 1 Control**

**SUPPLY**  
230V 50Hz

**OPERATING TEMPERATURE RANGE**  
0°C to +40°C

**BATTERY TYPE**  
Lithium

**CASE MATERIAL**  
Thermoplastic, flame retardant

**DIMENSIONS**  
101mm x 163mm x 37mm

**DISPLAY**  
Back-lit liquid crystal

**CLOCK**  
24 hour or 12 hour AM/PM

**DISPLAYED TIME ADJUSTMENTS**  
1 minute steps

**SWITCHED TIME ADJUSTMENTS**  
10 minute steps

**PROGRAMME OPTIONS**  
ON, OFF, All Day, Auto and Holiday

**OPERATING PERIODS PER DAY**  
3 for each channel

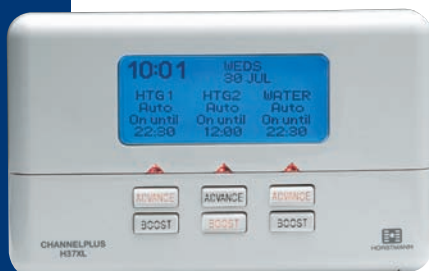
**OVERRIDE (EACH CHANNEL)**  
1 or 2 hour boost  
1 or 2 hour extension to ON period  
Instant advance

**MOUNTING**  
9 pin wall fixing plate

**DOUBLE INSULATED**  
Yes

**ENCLOSURE PROTECTION**  
IP 30

**POLLUTION DEGREE** 2



## CHANNELPLUS H47XL

Programmer with 7 day setting over four independent channels. Designed for use with fully pumped central heating systems using four separate zone valves in addition to many other applications.

## CHANNELPLUS H37XL

Programmer with 7 day setting over three independent channels. Designed for use with fully pumped central heating systems using three separate zone valves. Meets zoning requirements of Part L1 of the Building Regulations.

## CHANNELPLUS H37VXL

The same as the H37XL but with volt free contacts.

## CHANNELPLUS H27ZXL

Two channel with 7 day programming and independent timing of Zone 1 and Zone 2.

## CHANNELPLUS H27XL

Two channel with 7 day programming and independent timing of heating and hot water.

## CHANNELPLUS H21XL

Two channel with 24 hour programming and independent timing of heating and hot water.

## CHANNELPLUS H17XL

Single channel time switch with full 7 day programming.

## CHANNELPLUS H11XL

Single channel time switch with 24 hour programming.

Voltage free contacts make both the H11 and H17 units ideal for combi boilers.

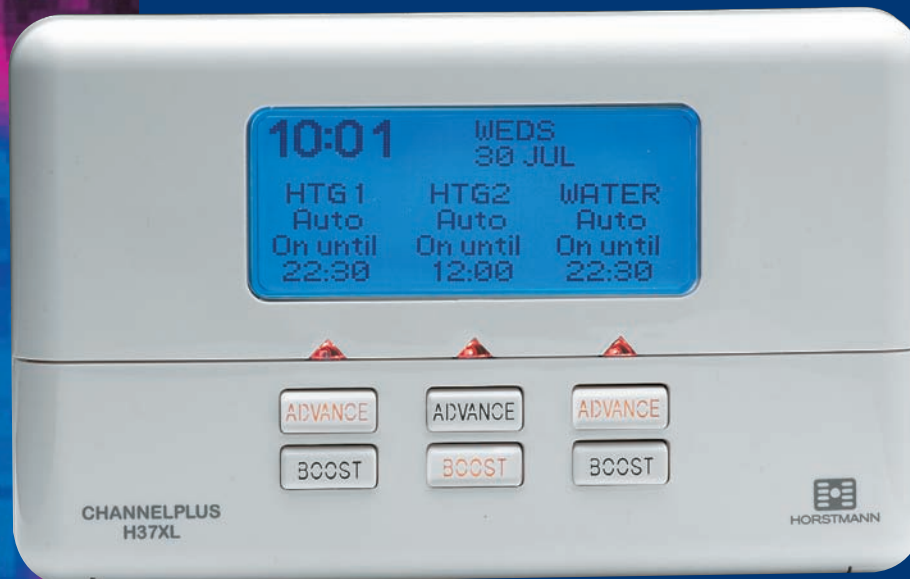


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## CHANNELPLUS H37XL SERIES 2 Electronic Programmer

A three channel programmer giving independent timing of each channel on a 7 day programme. Ideal for the control of two heating zones as well as hot water.

Unique 3 channel programming

Back-lit LCD display

Preset clock

Automatic Winter/Summer time change

Simplified menu driven programming

Full 7 day operation

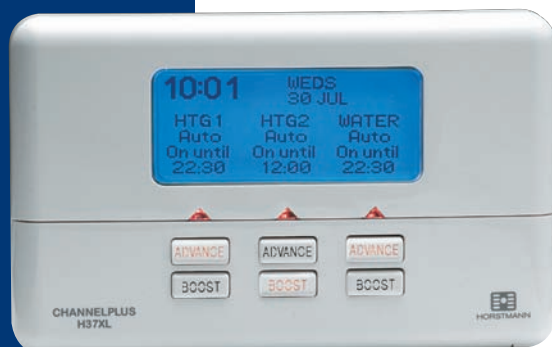
Volt free version

5 year warranty



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## SPECIFICATION

### CONTACT RATING

3 (1) Amps 230AV AC

### CONTACT TYPE

Micro-disconnection changeover

Type 1 control

(Voltage free H37VXL)

### SUPPLY

230V 50HZ

### OPERATING TEMPERATURE RANGE

0° to +40°C

### BATTERY TYPE

Lithium

### CASE MATERIAL

Thermoplastic, flame retardant

### DIMENSIONS

101mm x 163mm x 37mm

### DISPLAY

Back-lit liquid crystal

Day of week indication

### CLOCK

24 hour or 12 hour AM/PM

### DISPLAYED TIME ADJUSTMENTS

1 minute steps

### SWITCHED TIME ADJUSTMENTS

10 minute steps

### PROGRAMME OPTIONS

ON, OFF, All day, Auto, Holiday

### OPERATING PERIODS PER DAY

Three for each channel

### OVERRIDE (EACH CHANNEL)

1 or 2 hour boost, 1 or 2 hour

extension to ON period

Instant advance

### MOUNTING

9 pin wall fixing plate

### DOUBLE INSULATED

Yes

### ENCLOSURE PROTECTION

IP 30

Pollution Degree 2

## CHANNELPLUS H37XL

Programmer with 7 day setting over 3 independent channels (e.g. zones 1, 2 and 3 or hot water, heating 1 and 2).

Designed for use with fully pumped central heating systems using three separate 2 port zone valves.

Part L1 of the Building Regulations requires properties above 150 sq m floor space to have two separate heating zones.

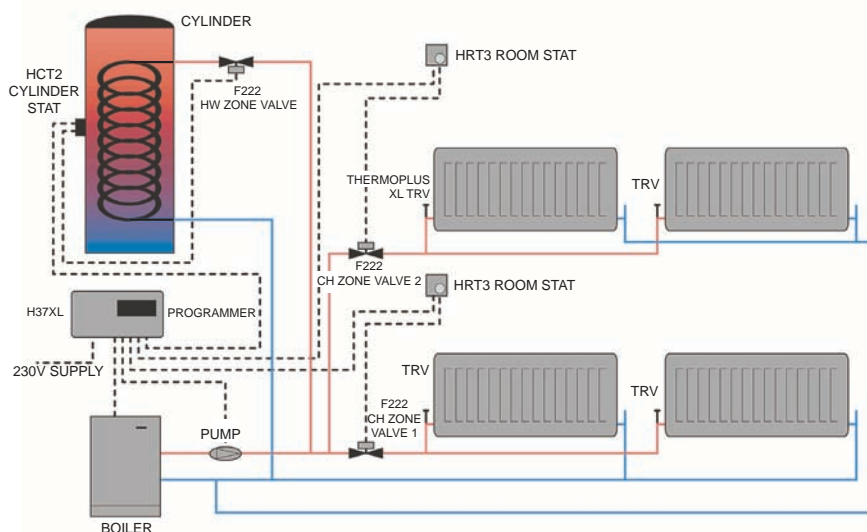
This is an ideal application for the H37XL.

Also available:

## CHANNELPLUS H37VXL

The same as the H37XL but with volt free contacts.

### 3 Zone Heating System with H37XL



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## CHANNELPLUS H47XL SERIES 2 Electronic Programmer

A 4 channel version of the ChannelPlus programmer for larger dwellings, featuring zone control of Hot Water and Heating as well as many other zoning applications including Underfloor Heating.

Back-lit LCD display

Preset clock

Automatic Winter/Summer time change

Simplified menu driven programming

Full 7 day operation over 4 independent channels

5 year warranty

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Certification mark

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DISPLAY SHOWING ZONES 1,2,3 and 4



## SPECIFICATION

**CONTACT RATING**  
 3 (1) Amps 230V AC  
**CONTACT TYPE**  
 Micro-disconnection changeover  
 Type 1 control  
**SUPPLY**  
 230V 50Hz  
**OPERATING TEMPERATURE RANGE**  
 0°C to +40°C  
**BATTERY TYPE**  
 Lithium  
**CASE MATERIAL**  
 Thermoplastic, flame retardent  
**DIMENSIONS**  
 101mm x 163mm x 37mm  
**DISPLAY**  
 Back-lit liquid crystal  
**CLOCK**  
 24 hour or 12 hour AM/PM  
**DISPLAYED TIME ADJUSTMENTS**  
 1 minute steps  
**SWITCHED TIME ADJUSTMENTS**  
 10 minute steps  
**PROGRAMME OPTIONS**  
 ON, OFF, All Day, Auto, Holiday  
**OPERATING PERIODS PER DAY**  
 Three for each channel  
**OVERRIDE (EACH CHANNEL)**  
 1 or 2 hour boost  
 1 or 2 hour extension to ON period  
 Instant advance  
**MOUNTING**  
 9 pin wall fixing plate  
**DOUBLE INSULATED**  
 Yes  
**ENCLOSURE PROTECTION**  
 IP 30  
 Pollution Degree 2

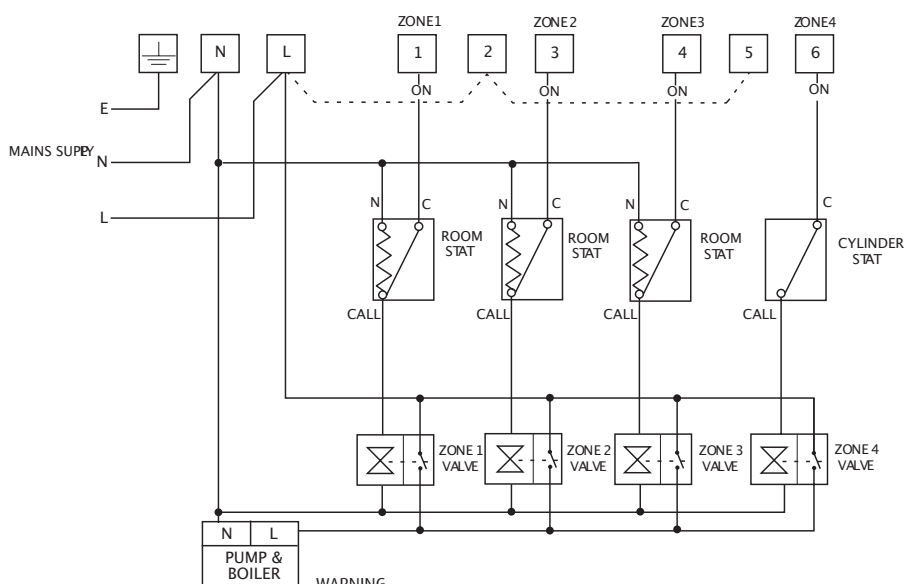
## CHANNELPLUS H47XL

A user friendly 4 channel programmer designed for domestic use, providing advanced, easily programmed features.

The latest Building Regulations Domestic Heating Compliance Guide requires heating zones that exceed 150 sq m to have independent time and temperature control as well as separate hot water zones. These currently apply to new build domestic dwellings.

The display can be configured by use of the menu button to show different headings for each channel.

### 4 Zone Heating System with H47XL



**WARNING**  
 This diagram is schematic and should be used as a guide only. Please ensure that all installations comply with the current IEE regulations. When used to control mains voltage, (as diagram shows), Terminals L, 2 and 5 must be electrically linked by of a suitable piece of sleeved conductor. If the ChannelPlus H47XL is being used to control low voltage systems then these links MUST NOT be fitted.



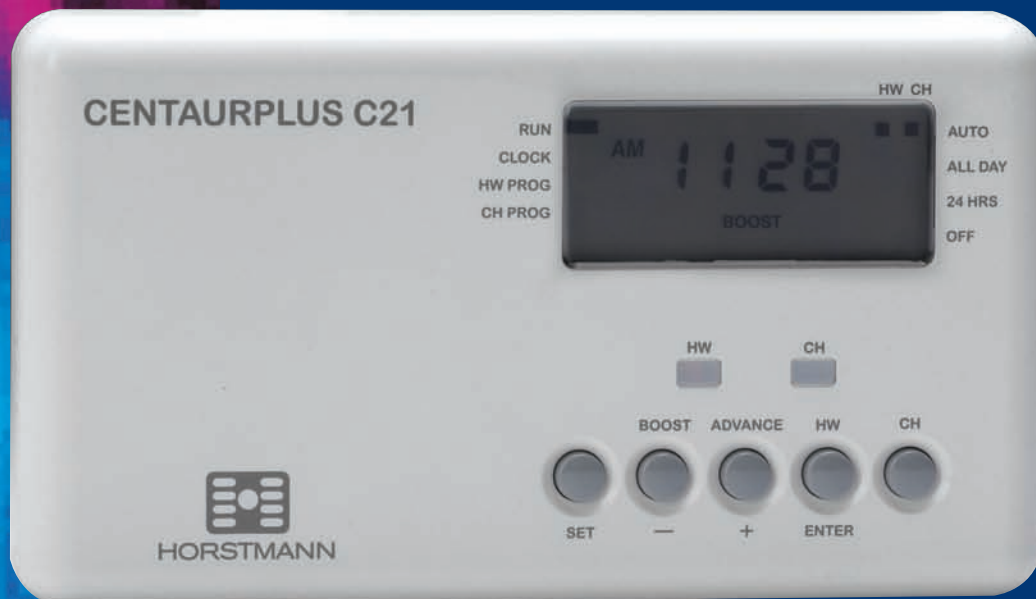
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## CENTAURPLUS Electronic Programmers

The CentaurPlus range of single and two channel heating programmers offers leading edge technology at an affordable price. Using the six terminal wall plate, CentaurPlus can be a straightforward plug in replacement for many other manufacturer's models.

24 hour and 7 day options

Up to 3 ON/OFFs a day

Hot water boost and central heating advance

Programme options: ON, OFF, All Day or Auto

Mains powered with battery back-up

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## SPECIFICATION

CONTACT RATING  
3 (1) Amps 230V AC  
CONTACT TYPE  
Micro-disconnection changeover  
Voltage free  
(C11 and C17 only)  
SUPPLY  
230V AC 50Hz only  
Pollution Degree 2  
CLASS A SOFTWARE  
Type 1 control  
OPERATING TEMPERATURE RANGE  
0°C to +40°C  
BATTERY LIFE  
10 months continuous operation  
(minimum)  
CASE MATERIAL  
Thermoplastic, flame retardant  
DIMENSIONS  
84mm x 150mm x 29mm  
CLOCK  
12 hour AM/PM  
DISPLAYED TIME ADJUSTMENTS  
1 minute steps  
SWITCHED TIME ADJUSTMENTS  
10 minute steps  
OPERATING PERIODS PER DAY  
C11 and C17 - 3 per day  
C21 and C27 - 3 per day for CH and 3  
per day for HW  
Separate programmes possible for  
each day of the week (C17 and C27)  
OVERRIDE  
C11 and C17 - 1 hour boost, 1 hour  
extension to On period, instant  
advance.  
C21 and C27 - 1 hour boost (HW  
only), 1 hour extension to On period  
(HW only), instant advance (CH only)  
MOUNTING  
Industry standard 6 terminal plug in  
wall plate



## CENTAURPLUS C27

Two channel 7 day programmer allowing independent time control of central heating and hot water.

## CENTAURPLUS C21

Simple, low cost 24 hour version of the C27.

## CENTAURPLUS C17

Single channel, 7 day time control suitable for combi boiler applications, an extra heating zone, or the pump on a solid fuel boiler.

## CENTAURPLUS C11

Simple, low cost 24 hour version of the C17.

	Single Channel	Two Channel	24 Hour	7 Day
CentaurPlus C27		●		●
CentaurPlus C21		●	●	
CentaurPlus C17	●			●
CentaurPlus C11	●		●	



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## SERVICEPLUS Service Interval Programmers

A range of programmers and timeswitches developed to facilitate compliance with the Gas Safety (Installation and Use) Regulations 1998. Although not intended to replace the normal servicing regime, it can act as a supplementary aid to enabling compliance.

Automatically shuts down system once service period is overdue

Service period set by installer using unique key code

Service interval 12 month safety check clock

Facilitates compliance with Gas Safety Regulation 36

Building Regs Part L compliant



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## SPECIFICATION

**CONTACT RATING**  
3(1) Amps 230V AC

**CONTACT TYPE**  
Micro-disconnection  
Voltage free (S11, S17 only)  
with optional mains  
switched supply

**SUPPLY**  
230V AC 50Hz only  
Pollution Degree 2  
CLASS A SOFTWARE  
Type 1 Control

**OPERATING TEMPERATURE RANGE**  
0°C to +40°C

**BATTERY LIFE**  
Minimum 10 months  
continuous operation

**CASE MATERIAL**  
Thermoplastic flame retardant

**DIMENSIONS**  
Width 84mm x Height 150mm  
x Depth 29mm

**DISPLAY**  
Liquid crystal

**CLOCK**  
12 hour AM/PM

**DISPLAYED TIME ADJUSTMENTS**  
1 minute steps

**SWITCHED TIME ADJUSTMENTS**  
10 minute steps

**OPERATING PERIODS PER DAY**  
S11 and S17  
- 3 per day  
S21 and S27  
- 3 per day for CH and HW  
S17 and S27  
- separate programmes possible  
for each day of the week

**OVERRIDE**  
S11 and S17  
- 1 hour boost, 1 hour extension  
to ON period  
Instant advance  
S21 and S27  
- 1 hour boost (HW only), 1 hour  
extension to ON period (HW only),  
instant advance (CH only)

**MOUNTING**  
Industry standard 6 terminal  
plug in wall plate



ServicePlus S27



ServicePlus S21



ServicePlus S17



ServicePlus S11

## ServicePlus S27

SERVICE INTERVAL 7 DAY PROGRAMMER

These programmers have industry standard wiring connections, making them ideal replacements for many existing programmers. Featuring up to 3 ON/OFFs a day, Hot Water boost and Central Heating advance. Both Hot Water and Central Heating outputs are overridden by the internal service schedule. Programme options: ON, OFF, ALL DAY or AUTO. Mains powered with battery back-up.

## ServicePlus S21

24 HOUR VERSION OF S27

## ServicePlus S17

SERVICE INTERVAL 7 DAY TIMSWITCH

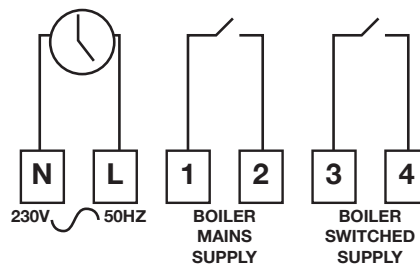
These timeswitches have standard volt free contacts making them ideal for combi boiler installations, whilst also supplying the mains voltage connection, allowing complete control of hot water production. Featuring up to 3 ON/OFFs a day and boost and advance facilities. Both outputs are controlled by the internal service schedule. Programme options: ON, OFF, ALL DAY or AUTO. Mains powered with battery back-up.

## ServicePlus S11

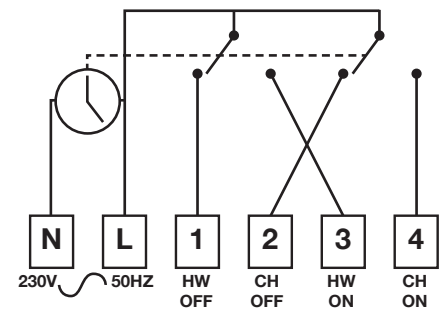
24 HOUR VERSION OF S17

S11 and S17 timeswitches also include a unique mains switching circuit to disconnect combi boilers.

## Wiring connections



ServicePlus S11/S17



ServicePlus S21/S27



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## ZONEPLUS SERIES 2 Motorised Valves

A range of motorised valves that combine proven electronic controls technology with the latest Horstmann design features, for easy installation and maintenance.

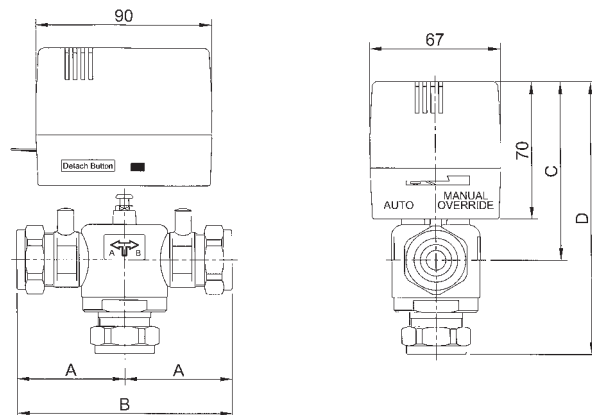
There are four models within the range:  
22mm & 28mm 2 port spring return valves  
22mm & 28mm 3 port mid-position valves

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**ZONEPLUS F322** 3 Port 22mm mid-position valve and  
**ZONEPLUS F328** 3 Port 28mm mid-position valve



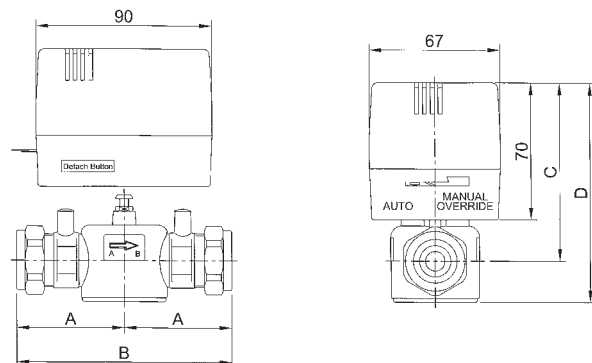
	A	B	C	D
<b>F322m</b>	<b>55</b>	<b>110</b>	<b>91</b>	<b>139</b>
<b>F328m</b>	<b>60</b>	<b>120</b>	<b>91</b>	<b>143</b>

## SPECIFICATION

CONTACT AND CABLE RATING  
5 AMPS 230V AC  
MOTOR POWER SUPPLY  
230V AV 50Hz  
MOTOR POWER CONSUMPTION  
<6.5W  
LEAD SUPPLIED  
1 Metre, 5 core – industry standard  
colours used  
EARTH CONNECTION REQUIRED  
MAXIMUM AMBIENT TEMPERATURE  
+50°C  
MAXIMUM FLUID TEMPERATURE  
+80°C  
MAXIMUM DIFFERENTIAL PRESSURE  
1 Bar  
MAXIMUM STATIC PRESSURE  
21 Bar  
MATERIALS:  
Ball: ethylene propylene  
dio mono (epdm)  
Cover: thermoplastic  
Valve body: brass  
PIPE FITTING SIZE  
F222m & F322m – 22mm compression  
F228m & F328m – 28mm compression  
ACTUATOR  
Energised – power open  
De-energised – spring return closed  
OVERRIDE LEVER

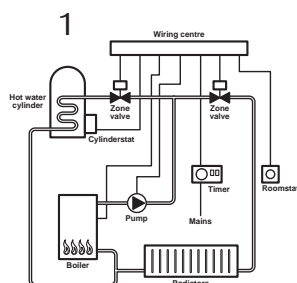


**ZONEPLUS F222** 2 Port 22mm spring return zone  
valve and **ZONEPLUS F228** 2 Port 28mm spring  
return zone valve (both with auxiliary switch).

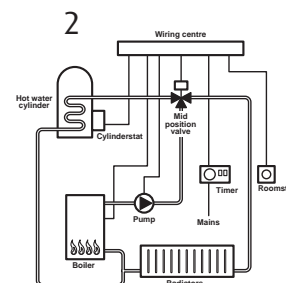


	A	B	C	D
<b>F222m</b>	<b>55</b>	<b>110</b>	<b>91</b>	<b>112</b>
<b>F228m</b>	<b>60</b>	<b>120</b>	<b>91</b>	<b>114</b>

## Plumbing Data



1. Typical layout for fully pumped system using F222 or F228 valves.



2. Typical layout for fully pumped system using F322 or F328 valves.



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## THERMOPLUS AS1 & AS2 Programmable Room Thermostats

The ThermoPlus AS1 (mains powered) and AS2 (battery powered) are programmable thermostats, designed to provide an economical but comfortable pattern of heating without the need for complex adjustments by the user.

Simple three button operation

LED Warm/Cool display

Preset clock with battery back-up

Automatic Summer/Winter time changes

5 Preset heating profiles, 6th custom heating profile

Back lit LCD display

Audible and tactile feedback

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## SPECIFICATION

CONTACT RATING ASR-RF  
3(1) Amps 230-240V AC  
CONTACT TYPE  
Micro disconnection  
Voltage free  
SUPPLY  
AS1 - 230V AC 50Hz  
AS2 - 3 x AA(LR6) batteries  
OPERATING TEMPERATURE RANGE  
0°C to +40°C  
BATTERY TYPE  
Lithium battery  
DOUBLE INSULATED  
Yes  
Pollution Degree 2  
ENCLOSURE PROTECTION  
IP 30  
TEMPERATURE CONTROL RANGE  
+5°C to +30°C  
STANDBY TEMPERATURE  
+5°C to +10°C  
CASE MATERIAL  
Thermoplastic flame retardant  
DIMENSIONS  
Width 120mm x Height 90mm  
x Depth 32mm  
DISPLAY  
Liquid crystal, back lit  
CLOCK  
24 hour  
DISPLAYED TIME ADJUSTMENTS  
1 minute steps  
SWITCHED TIME ADJUSTMENTS  
15 minute steps  
PROGRAMME SETTINGS  
Auto, Standby  
OPERATING PERIODS PER DAY  
Warm - 3 per day  
OVERRIDE  
Instant Warm/Cool  
MOUNTING  
AS1 - Industry standard  
6 pin backplate  
AS2 - Standard wall box fixing



AS1 flap closed:  
Normal operating position



AS2 flap closed:  
Normal operating position

## ThermoPlus AS1 & AS2

For day-to-day use only 3 buttons are needed. The centre 'Warm/Cool' button, complete with Braille markings, changes the temperature state and the '+' and '-' buttons provide fine user adjustment as well as audible feedback. Each adjustment is immediately reflected in changes to the bright red and blue LED display.

The warm and cool temperature settings can be easily adjusted by the user and, if required, a custom programme can be set to override the standard profile set by the installer. Under the flap the blue standby button will put the control into a 'frost protection' mode until re-activated.

The built-in clock is programmed to the correct time during manufacture and a built-in calendar will automatically adjust for summer and winter time changes, so there's never any need for user adjustment.

AS1 is mains powered for applications where a permanent mains supply is readily available.

AS2 is battery powered for applications where no mains supply is readily available to operate the unit or an existing thermostat is being replaced. Additional features include 3 standard AA batteries, 2 years+ battery life and separate clock power back-up. Battery life is conserved by means of an 8 second auto power down mode to all indicator lights.



AS1 flap open:  
For installer set-up



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## **THERMOPLUS PRT1** Mains Powered Programmable Room Thermostat

One of a range of ThermoPlus programmable thermostats, designed to provide an economical but comfortable pattern of heating without the need for complex adjustments by the user. With built in hypothermia protection the PRT1 is designed specifically for vulnerable and older users.

Hypothermia protection

Simple 3 button operation

LED Warm/Cool display

Preset clock with battery back-up

Automatic Summer/Winter time changes

5 Preset heating profiles



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## SPECIFICATION

**CONTACT RATING**  
3(1) Amps 230-240V AC

**CONTACT TYPE**  
Micro disconnection

**Voltage free**

**SUPPLY**  
230-240V AC 50Hz

**OPERATING TEMPERATURE RANGE**  
0°C to +40°C

**BATTERY TYPE**  
Lithium

**DOUBLE INSULATED**  
Yes

**POLLUTION DEGREE 2**

**ENCLOSURE PROTECTION**  
IP 30

**TEMPERATURE CONTROL RANGE**  
+15°C to +30°C

**STANDBY TEMPERATURE**  
+5°C to +10°C

**CASE MATERIAL**  
Thermoplastic flame retardant

**DIMENSIONS**  
Width 120mm x Height 90mm x  
Depth 32mm

**DISPLAY**  
Liquid crystal

**CLOCK**  
24 hour

**DISPLAYED TIME ADJUSTMENTS**  
1 minute steps

**SWITCHED TIME ADJUSTMENTS**  
15 minute steps

**PROGRAMME SETTINGS**  
Auto, Standby

**OPERATING PERIODS PER DAY**  
Warm - 3 per day

**OVERRIDE**  
Instant warm/cool

**MOUNTING**  
Industry standard backplate



Flap closed:  
Normal operating position



Flap open:  
For installer set-up

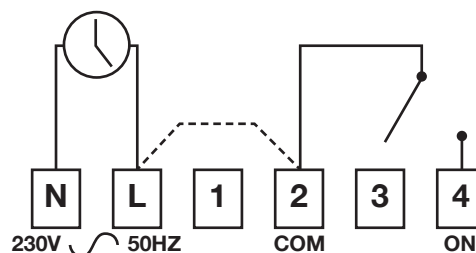
## ThermoPlus PRT1

For day-to-day use only 3 buttons are needed. The centre 'WARM/COOL' button, complete with Braille markings, changes the temperature state and the '+' and '-' buttons provide fine user adjustment as well as audible feedback. Each adjustment is immediately reflected in changes to the bright red and blue LED display.

Using a variety of pre-installed heating profiles, that can be easily set up by the installer, and a minimum cool setting of 15°C, the ThermoPlus aims to provide maximum comfort to the user and protection from hypothermia. Under the flap the blue standby button will put the control into a 'frost protection' mode until re-activated.

The built-in clock is programmed to the correct time during manufacture and a built-in calendar will automatically adjust for summer and winter time changes, so there's never any need for user adjustment. And, as the PRT1 is mains operated, there are no batteries to change.

### Wiring connections



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## **THERMOPLUS AS2-RF** Wireless Programmable Room Thermostat

The ThermoPlus AS2-RF is an intelligent wireless programmable thermostat, which transmits control signals to an RF receiver unit via Z Wave mesh radio technology. It is designed to be easy to install and easy to use. Perfect where installing additional wiring is difficult and where a straightforward easy to use programmable thermostat is required.

Wireless Radio Frequency connection

Preset clock with battery back-up

Automatic Summer/Winter time changes

Back lit LCD display

LED Warm/Cool display

Simple 3 button operation

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## SPECIFICATION

OPERATING FREQUENCY  
868Mhz

AS2-RF - Battery  
ASR-RF - Mains

CONTACT RATING ASR-RF  
3(1) Amps 230-240V AC

CONTACT TYPE  
Micro dis-connection

Voltage free

SUPPLY  
230-240V AC 50Hz

OPERATING TEMPERATURE RANGE  
0°C to +40°C

BATTERY TYPE  
Lithium + 3AA (AS2-RF)

DOUBLE INSULATED  
Yes

Pollution Degree 2

ENCLOSURE PROTECTION  
IP 30

TEMPERATURE CONTROL RANGE  
+5°C to +30°C

STANDBY TEMPERATURE  
+5°C to +10°C

CASE MATERIAL  
Thermoplastic flame retardant

DIMENSIONS  
Width 120mm x Height 90mm  
x Depth 32mm

DISPLAY  
Liquid crystal, back lit

CLOCK  
24 hour

DISPLAYED TIME ADJUSTMENTS  
1 minute steps

SWITCHED TIME ADJUSTMENTS  
15 minute steps

PROGRAMME SETTINGS  
Auto, Standby

OPERATING PERIODS PER DAY  
Warm - 3 per day

OVERRIDE  
Instant warm/cool

MOUNTING  
Industry standard backplate



ASR-RF receiver located near boiler.



AS2-RF Control unit installed in normal thermostat location



## ThermoPlus AS2-RF

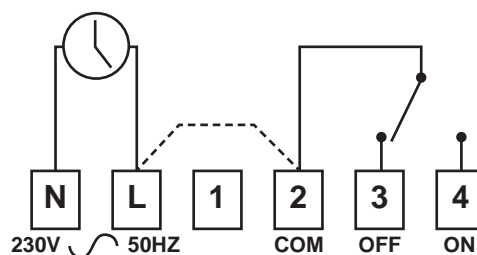
ASR-RF is a mains powered receiver for connecting where a mains supply is readily available.

AS2-RF thermostat transmits via Z Wave mesh radio technology and is capable of operation in most domestic houses with an operating range of approximately 30 metres. Ideal for controlling combi boilers, it can be mounted in any suitable location without the need to disturb existing wiring or décor. Operates from 3 standard AA batteries, with 2 years+ life and separate clock battery.

For day-to-day use only 3 buttons are needed. The centre 'Warm/Cool' button changes the temperature state and the '+' and '-' buttons provide fine user adjustment as well as audible feedback. Each adjustment is immediately reflected in changes to the bright red and blue LED display.

The built-in clock is programmed to the correct time during manufacture and a built-in calendar will automatically adjust for summer and winter time changes, so there's never any need for user adjustment.

### ASR-RF wiring connections



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## CENTAURSTAT

### Electronic Programmable Thermostat

Compact and stylish, CentaurStat is a single channel, 7 day time and temperature control suitable for combi boiler applications and conventional systems.

Increased comfort with reduced energy use

Choice of user displays

6 different target temperatures each day

Indicator warning when batteries are low

Battery power means no extra wiring

The ideal control for combi boilers

TPI temperature control



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## SPECIFICATION

### CONTACT RATING

8(3) Amps 230V AC

### CONTACT TYPE

Micro-disconnection  
changeover

### SUPPLY

3 x AA size alkaline primary cells

### OPERATING TEMPERATURE RANGE

0°C to +40°C

### BATTERY LIFE

In excess of 2 years

### DOUBLE INSULATED

Yes

### POLLUTION DEGREE 2

Normal situations

### ENCLOSURE PROTECTION

IP 30

### TEMPERATURE LEVELS

CentaurStat 1: 6 per 24 hours

CentaurStat 7: 6 for workdays

and 6 for restdays

### TEMPERATURE SETTING RANGE

OFF +5°C to +30°C

### TEMPERATURE DIFFERENTIAL

(HYSTERSIS) AT 4°C PER HOUR

<0.5°C

### TEMPERATURE MEASUREMENT ACCURACY

AT +20°C

Conventional wet central heating

systems: +19.75°C to +20.75°C

Electric heating up to 8 Amps

+19.5°C to +21.5°C

### DIMENSIONS

Width 142mm, Height 71mm, Depth

30mm

### DISPLAY

Target temperature indication with 12

hour AM/PM clock or actual

temperature

CentaurStat 7: Day of week indication

### SWITCH TIME ADJUSTMENT

10 minute steps

### OVERRIDE

Temporary temperature override until

next preset period. Temperature lock,

permanent temperature override until

reset

### MOUNTING

Directly to a wall or onto a single or

double gang steel flush wiring box to

BS4662 by means of a patress



## THE CENTAURSTAT FAMILY

The CentaurStat Programmable Thermostat is the ideal energy saving control for use with combi boilers to give a comprehensive time and temperature programme to suit every householders requirements.

On conventional fully pumped systems with stored hot water, CentaurStats can be used by leaving the existing programmer in place to time the hot water. With the central heating programmed to 'On Constant', control of the heating is passed to the CentaurStat.

CentaurStats also provide zone control over extra heating zones and the control of solid fuel heating systems. The TPI temperature control provides a very close switching differential of 0.5°C while ensuring that boiler cycling is kept to a minimum.

CentaurStat offers the user a choice of display options to monitor time and temperature settings.

Once programmed, only plus and minus buttons are needed to adjust the temperature.



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## **DRT 1 & DRT 2** Digital Room Thermostats

Battery powered

Replaces existing thermostat with no additional wiring

Energy saving

### **ROOM THERMOSTAT - DRT 1**

Ideal for combi boilers with built in time control

Upgrades to existing stats on a gravity system

Ideal temperature control for multiple zone systems

### **PROGRAMMABLE THERMOSTAT - DRT 2**

Ideal for combi boilers

Upgrades to existing stats on a fully pumped system

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## SPECIFICATION

### ROOM THERMOSTAT TYPE DRT 1

OPERATING VOLTAGE  
 230V 50/60Hz  
 SWITCH CURRENT AT 250V AC  
 5 (3) Amps Maximum  
 CONTACT CONFIGURATION  
 SPDT  
 TEMPERATURE RANGE  
 +5°C to +35°C  
 SWITCHING DIFFERENTIAL  
 Approx. 1°C  
 BATTERY LIFE  
 In excess of 2 years  
 IP 30



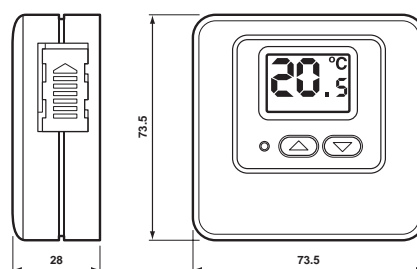
### ROOM THERMOSTAT TYPE DRT 2

PROGRAMMES  
 4 Weekday  
 2 Saturday  
 2 Sunday  
 OPERATING VOLTAGE  
 230V 50/60Hz  
 SWITCH CURRENT AT 250V AC  
 5 (3) Amps Maximum  
 CONTACT CONFIGURATION  
 SPDT  
 TEMPERATURE RANGE  
 +5°C to +35°C  
 SWITCHING DIFFERENTIAL  
 Approx. 1°C  
 BATTERY LIFE  
 In excess of 2 years  
 IP 30

## ROOM THERMOSTAT Model DRT 1

With an adjustable temperature range of between 5°C to 35°C, the Horstmann DRT1 is suitable for all central heating systems, its simple 2 wire connections and battery powered operation allows the DRT1 to be used on mains or low voltage switching.

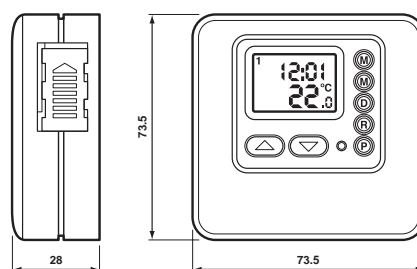
Dimensions Shown in mm



## PROGRAMMABLE THERMOSTAT Model DRT 2

The Horstmann DRT2 programmable room thermostat has all the features of the DRT1, whilst offering flexible programming. This allows the user to set different temperature levels at different times of the day to suit the daily routine of the household. (4 time and temperature programmes Monday to Friday, 2 time and temperature programmes for each of the weekend days.)

Dimensions Shown in mm



Both the Horstmann DRT1 and DRT2 thermostats are fully compatible with Horstmann Valves and Programmers.



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## CYLINDER AND ROOM THERMOSTATS

### **CYLINDER THERMOSTAT Model HCT 2**

Adjustable temperature range 0°C to 90°C

16 Amp changeover (S.P.D.T.) contacts

Switching differential of approximately 3°C

Bimetallic sensor system

### **ROOM THERMOSTAT Model HRT 3**

Adjustable temperature range 5°C to 35°C

10 Amp (S.P.S.T) contacts

Ventilated enclosure

Bimetallic sensor system with  
accelerator resistor

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Certification mark

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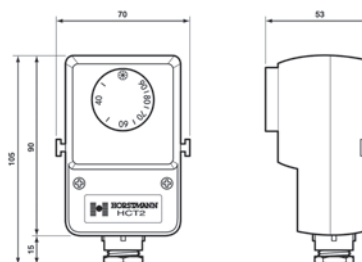


## CYLINDER THERMOSTAT Model HCT 2

With an adjustable temperature range of between 0°C to 90°C, the Horstmann cylinder thermostat is suitable for mounting on either domestic hot water cylinders or large heating pipes.

A bimetallic sensor system ensures precise hot water temperature control. Each unit is supplied with a strap and buckle, for easy installation.

Dimensions Shown in mm



## SPECIFICATION

### CYLINDER THERMOSTAT TYPE HCT 2

OPERATING VOLTAGE  
 220/240V 50/60Hz  
 SWITCH CURRENT AT 250V AC  
 16 Amps Maximum  
 CONTACT CONFIGURATION  
 SPDT  
 TEMPERATURE RANGE  
 0°C to +90°C  
 SWITCHING DIFFERENTIAL  
 Approx. +3°C  
 SENSOR SYSTEM  
 Bimetallic  
 ENCLOSURE PROTECTION  
 IP 40



## ROOM THERMOSTAT Model HRT 3

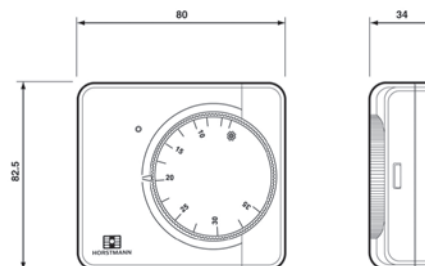
Good looking and reliable, the Horstmann room thermostat is suitable for all central heating systems which respond to a 230V mains electrical on/off signal\*.

A bimetallic sensor ensures excellent response to temperature changes and a simple rotating dial allows setting between 5°C to 35°C.

Units can be mounted directly onto the wall using the built-in patress.

\*A mains neutral connection is also required.

Dimensions Shown in mm



### ROOM THERMOSTAT TYPE HRT 3

CONTACT CONFIGURATION  
 SPST  
 TEMPERATURE RANGE  
 +5°C to +35°C  
 SWITCHING CURRENT AT 250V AC  
 10 Amps maximum  
 SWITCHING DIFFERENTIAL  
 Approx. +0.5°C  
 SENSOR SYSTEM  
 Bimetallic  
 ENCLOSURE PROTECTION  
 IP 20

Both the Horstmann room thermostat and cylinder thermostat are fully compatible with Horstmann's motorised valves and central heating programmers.



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P81256 Issue 6





# HORSTMANN



## ECONOMY 7 QUARTZ

### Immersion Heater Control

Designed for use with Economy 7 off peak rate overnight electricity, the Economy 7 Quartz is the standard by which all other water heating controls are judged and is the all-time best seller in water heating controls.

Quartz controlled to within 10 minutes a year

Rechargeable battery keeps time during power interruptions

Summer and winter time settings instantly visible

Large terminals and back box for easy installation

Indicator lights show whether on-peak or off-peak power is being used

Up to 60 minute boost means extra hot water at any time

Industry standard wall box and connections

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## SPECIFICATION

### CONTACT RATING

13 Amps 230V AC Suitable for immersion heaters up to 3 kW

### CONTACT TYPE

Micro-disconnection on control  
Disconnection to immersion heater(s) on double-pole rocker switches

### SUPPLY

230V 50Hz

### POLLUTION DEGREE 2

### MOISTURE PROTECTION

Ordinary

### ENCLOSURE PROTECTION

IP 30

### SHOCK PROTECTION

Class 1

### LIVE PARTS

Enclosed

### OPERATING TEMPERATURE RANGE

0°C to +35°C

### BATTERY RESERVE

150 hours

### PROGRAMME SETTINGS

-OFF PEAK

Adjustable between 4 1/2 and 7 hours

-BOOST

Economy 7 Quartz: 0-60 minutes

E7 Quartz 2 Hour: 0-120 minutes

### DIMENSIONS:

170mm wide x 115mm high x 56mm deep

(excluding knobs)

BEAB APPROVED

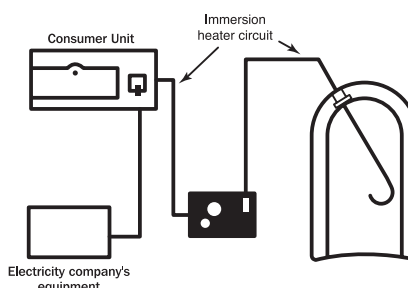
## ECONOMY 7 QUARTZ

A proven, reliable and accurate unit, the Economy 7 Quartz is easy to install and set, providing a tankful of hot water to start each day utilising Economy 7 off peak rate overnight electricity. The manual boost timer provides extra hot water in the day time – should it be needed.

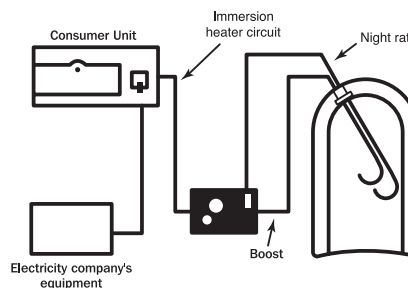
## E7 QUARTZ 2 HOUR

The E7 Quartz 2 hour model has the same specification as the Economy 7 Quartz but with 0 - 120 minutes boost timer.

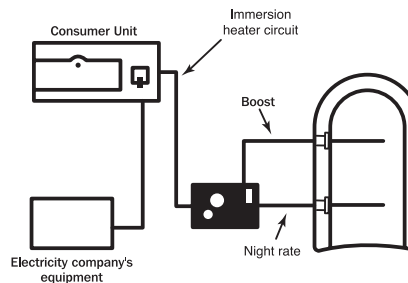
### Single immersion heater



### Dual immersion heater



### Twin immersion heaters



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## ELECTRONIC 7 SERIES 3

### Immersion Heater Control

Where hot water is heated by off peak electricity it is important that the immersion heater controller offers ease of use coupled with the most efficient performance. Which is where the upgraded Horstmann Electronic 7 Series 3 controller comes into its own.

Compatible with most cheap rate or off peak tariff structures

Fully interchangeable with all past and present Horstmann Economy 7 controllers

Built in clock – automatic Summer/Winter hour change

Up to three off peak settings per 24 hours

Programmable and manual boost

Suitable for use with single, dual or twin element immersion heaters

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## SPECIFICATION

### CONTACT RATING

13 Amps 230V AC Suitable for immersion heaters up to 3 kW

### CONTACT TYPE

Micro-disconnection on control  
Disconnection to immersion heater(s) on double-pole rocker switch  
Type 1 control

### TYPE 1B DISCONNECTION

### SUPPLY

230V 50Hz

### PROTECTION DEGREE 2

Normal situations

### MOISTURE PROTECTION

Ordinary

### CLASS A SOFTWARE

### ENCLOSURE PROTECTION

IP 30

### SHOCK PROTECTION

Class 1

### LIVE PARTS

Enclosed

### IMPULSE RATING = 4000V

### OPERATING TEMPERATURE RANGE

0°C to +35°C

### BATTERY RESERVE

Approximately 2 years total power disconnection

### PROGRAMME SETTINGS

-OFF PEAK

Up to 3 On/Off time periods

-BOOST

Programmable automatic boost and one hour manual boost

### DIMENSIONS:

170mm wide x 115mm high x 60mm deep (excluding rocker switch)

### DISPLAY

AM/PM indication

Winter/Summer indication

BEAB APPROVED

## ELECTRONIC 7 SERIES 3

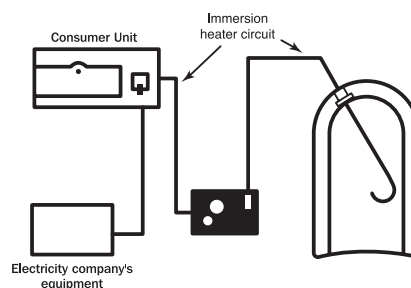
The Electronic 7 is designed to control one or two 3kW immersion heaters, utilising off peak electricity tariffs to provide a tank full of hot water each morning. Additional off peak settings are available to take advantage of the latest off peak tariff arrangements.

A boost button is provided to top up the hot water if supplies are running low and an automatic boost setting to provide a pre programmed daily boost is also available.

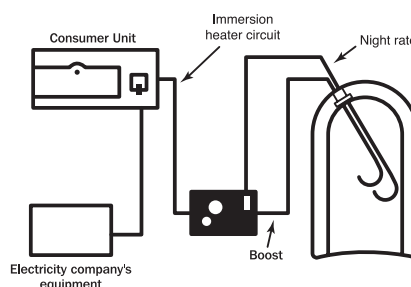
The Electronic 7 Series 3 is interchangeable with previous Economy 7 controllers using the standard size Economy 7 wall box and plug in connectors.

A two year battery reserve provides more than the total number of hours of power interruption the typical home will have in 200 years.

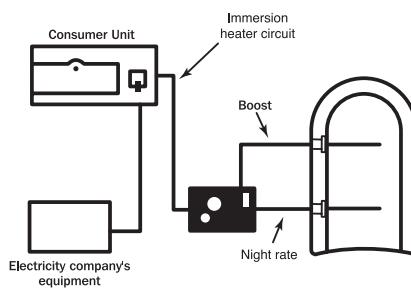
### Single immersion heater



### Dual immersion heater



### Twin immersion heaters



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## ELECTRISAVER Electronic Timer

The Electrisher is a simple push button electronic timer that saves energy by remembering to switch off when you forget.

Suitable for loads up to 3 kW

The perfect boiler override or extension timer for central heating systems anywhere

Flush or surface mounting

Wiring is simple with easy access terminals

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## SPECIFICATION

**CONTACT RATING**  
13 Amps 230V AC  
Suitable for loads up to 3 kW

**SUPPLY**  
230V 50Hz

**POLLUTION DEGREE 2**

**ENCLOSURE PROTECTION**  
IP 30

**SHOCK PROTECTION**  
Class 1

**LIVE PARTS**  
Enclosed

**MAXIMUM OPERATING TEMPERATURE**  
+35°C

**MINIMUM OPERATING TEMPERATURE**  
0°C

**DIMENSIONS**  
Height: 87mm  
Width: 87mm  
Depth: 16mm flush mounted  
51mm surface mounted

**TIME PERIOD**  
Model E15 - 15,30 or 60 mins  
Model E30 - 30, 60 or 120 mins

**MOUNTING**  
Single gang moulded box  
(Min. 35mm deep, not supplied)

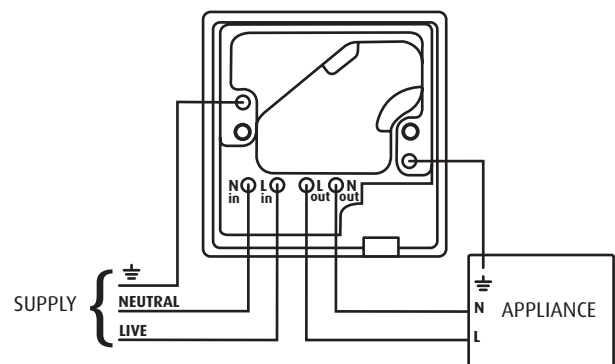
## ELECTRISAVER

Two models offer preset time periods ranging from 15 minutes to 60 minutes or 30 minutes to 120 minutes. Simply press the boost button and walk away.

Suitable for loads up to 3 kW (including immersion heaters) in shops, offices, schools, church halls and all around the home.

Applications include: panel heaters, heated mirrors, immersion heaters and towel rails.

Schematic wiring diagram



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# HORSTMANN



## E7BX & BX2000 Water Heating Boost Controls

These simple controls are intended for use where cheap overnight heating of water is controlled by the Electricity Company's Radio Teleswitch, Radio Telemeter or tariff time switch.

### E7BX

Designed to accept wiring from both 24 hour and off peak circuits

Adjustable 0 - 120 minute run-back boost timer

Simple to install and use

### BX2000

Makes the most effective use of the latest cheap-rate tariff structures, electronically

1 hour or 2 hour boost

Always gives priority to off-peak supply

**Horstmann.  
Together,  
we're in control.**



**Horstmann.**  
**Together,**  
**we're in control.**



**SPECIFICATION**

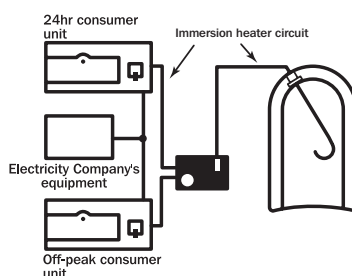
**CONTACT RATING**  
 13 Amps 230V AC Suitable for immersion heaters up to 3 kW  
 Type 1 Control  
**CONTACT TYPE**  
 BX2000: Disconnection to immersion heater(s) on double-pole switch  
 E7BX: Disconnection to "Off Peak" immersion heater on double-pole switch  
**SUPPLY**  
 230V 50/60Hz  
**POLLUTION DEGREE 2**  
**ENCLOSURE PROTECTION**  
 IP 30  
**SHOCK PROTECTION**  
 Class 1  
**LIVE PARTS**  
 Enclosed  
**OPERATING TEMPERATURE RANGE**  
 0°C to +35°C  
**TIMER BOOST DURATION (E7BX only)**  
 0 - 120 minutes  
**TIME PERIOD (BX2000 only)**  
 1 or 2 hours  
**DIMENSIONS-**  
 E7BX: 170mm wide x 115mm high x 56mm deep (excluding knobs)  
 BX2000: 170mm wide x 115mm high x 62mm deep (excluding rocker switches)  
**MOUNTING BOX MATERIAL**  
 Thermoplastic, flame retardant  
**BRITISH STANDARDS**  
 BX2000 and E7BX:  
 Designed to meet BS-EN 60730-2-7  
 BEAB APPROVED (E7BX only)



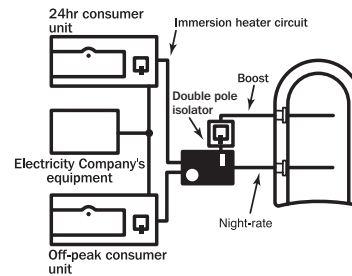
**E7BX**

Simple to install and use  
 Boost period adjustable between 0 and 120 minutes  
 Neon indicator shows when boost timer is running  
 Can be used with one or two immersion heaters  
 Suits earth-leakage circuit breaker installations

Single immersion heater



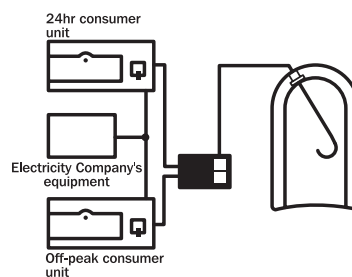
Two immersion heaters



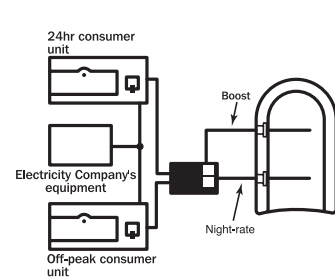
**BX2000**

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  
 Incorporates two double pole switches: one for 24 hour supply: one for off-peak (cheap rate) supply  
 Accepts all incoming and outgoing wiring for single, dual or two separate 3 kW immersion heater applications

Single immersion heater



Two immersion heaters



**HORSTMANN**

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