

PRINCE OF WALES DRIVE

BATTERSEA · LONDON SW11

HEATING & DOMESTIC WATER USER GUIDE



CILANTRO

MEP ENGINEERING CONTRACTORS

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1.1 Heat Interface Unit

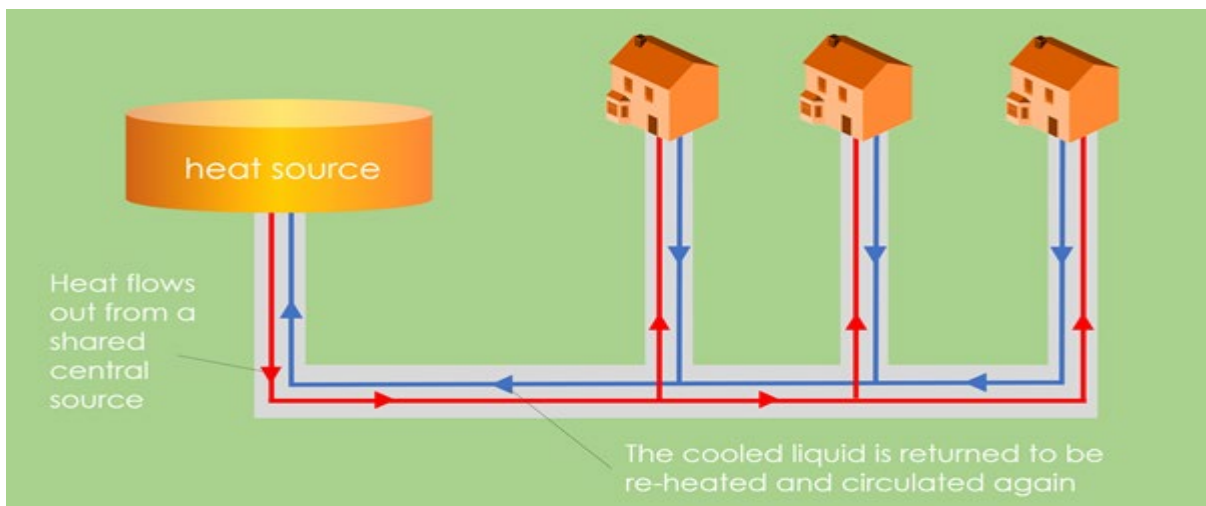
A Heat Interface Unit (HIU) is installed within the apartment utility cupboard. HIU provides two different types of hot water:

Domestic Hot Water (DHW)

DHW is distributed to taps and applicable white goods around the home. DHW is generated by fresh, drinkable cold water being fed into the HIU and heated upon demand.

Low Temperature Hot Water (LTHW)

LTHW is distributed to the apartment Underfloor Heating system. This pre-heated water is provided directly from the District Heating network. LTHW is fed in a continual circuit to and from each apartment via a central heat source (landlords' boilers).



LTHW usage is recorded by way of a dedicated Heat meter, which is mounted on the HIU façade (and can be read remotely by the utility company billing manager).



Figure 3.1A - A Heat Interface Unit
Make: Danfoss - Model: VVX-I-R-FI-UFH

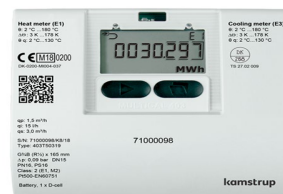






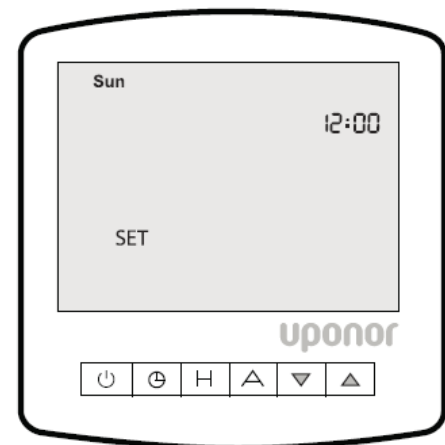
Figure 3.1B - An LTHW Heat Meter
Make: Kamstrup - Model: Multical 403

1.2 Underfloor Heating

All properties at the Price of Wales Drive development are equipped with Underfloor Heating (UFH). Each room is provided with a wall mounted Uponor T26 UFH thermostat, which is used to programme the desired temperature. Full guidance on thermostat operation can be found within the manufacturers' instructions.

Icons • Symbolen • Iconos • Pictogrammen

	<ul style="list-style-type: none"> Ⓚ Heat on ⓁⓊⓂ Heizung Ein Ⓢ Calefacción activada Ⓝ Verwarming aan 	
	<ul style="list-style-type: none"> Ⓚ Frost protection on ⓁⓊⓂ Frostschutz Ein Ⓢ Protección antihelada Ⓝ Vorstbeveiliging aan 	
	<ul style="list-style-type: none"> Ⓚ Key lock ⓁⓊⓂ Tastensperre Ⓢ Bloqueo de teclas Ⓝ Toetsenvergrendeling 	(A + ▽) 10s
	<ul style="list-style-type: none"> Ⓚ Floor set temperature ⓁⓊⓂ Einstellung Bodentemperatur Ⓢ Temperatura seleccionada para el suelo Ⓝ Ingestelde vloertemperatuur 	



Time & Temperature Schedule

Press **Ⓛ** twice.
 Use **▽△** to adjust time.
 Press **H** to accept.
 Use **▽△** to adjust day of the week.
 Press **A** to exit.

Figure 3.2A - A UFH Thermostat

Make: Uponor - **Model:** T-26

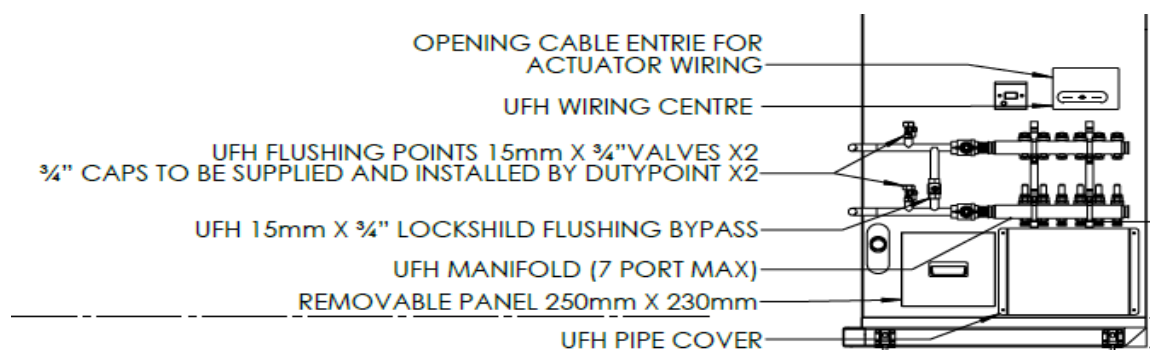


Figure 3.2B - UFH equipment within the utility cupboard

1.3 Heated Towel Rail (Where Applicable)

Select housing association apartments are provided with an electric heated towel rail, which is wall mounted within the bathroom.



Figure 3.3A - A Heated Towel Rail
Make: TowelRads - Model: Richmond

The Richmond Series rail is powered and controlled by way of a Timeguard fused spur switch. Full guidance on how to set an operating schedule can be found in the manufacturer's instruction manual, which is located within the appendix section of this document.

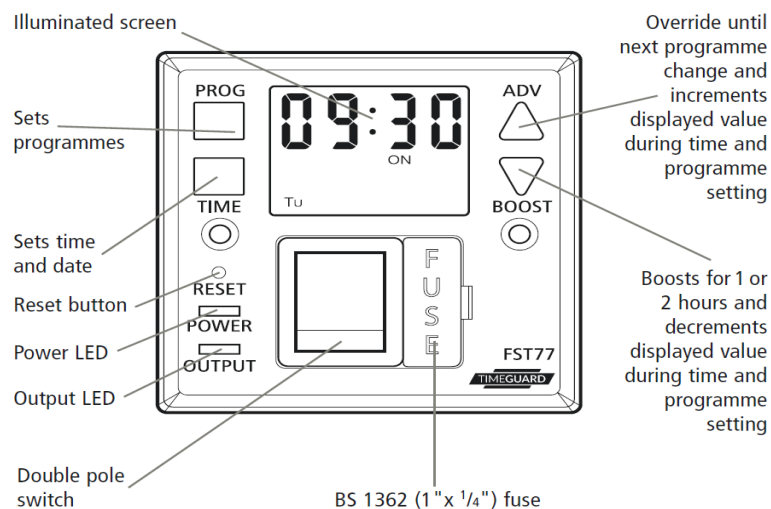


Figure 3.3B - The towel rail time switch
Make: Timeguard - Model: FST77

1.4 Domestic Hot & Cold Water

The domestic cold water supply to the property is provided from the utility cupboard. This cold water feed is distributed directly to taps/white goods, or to the Heat Interface Unit for conversion into domestic hot water.

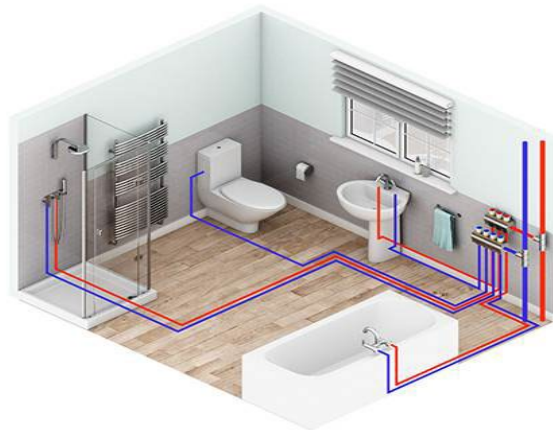


Figure 3.4A - Domestic Water Schematic

Each apartment utility cupboard is afforded with a Tenant Valve Assembly (TVA), which houses the main isolation valve (stop cock) and water meter serving the property. All cold water consumed via outlets or the HIU is recorded by this meter.

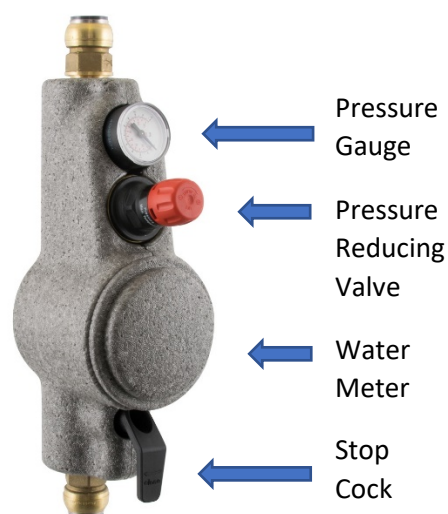
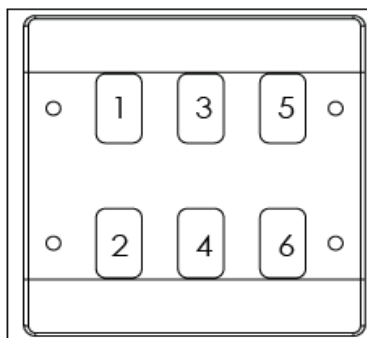
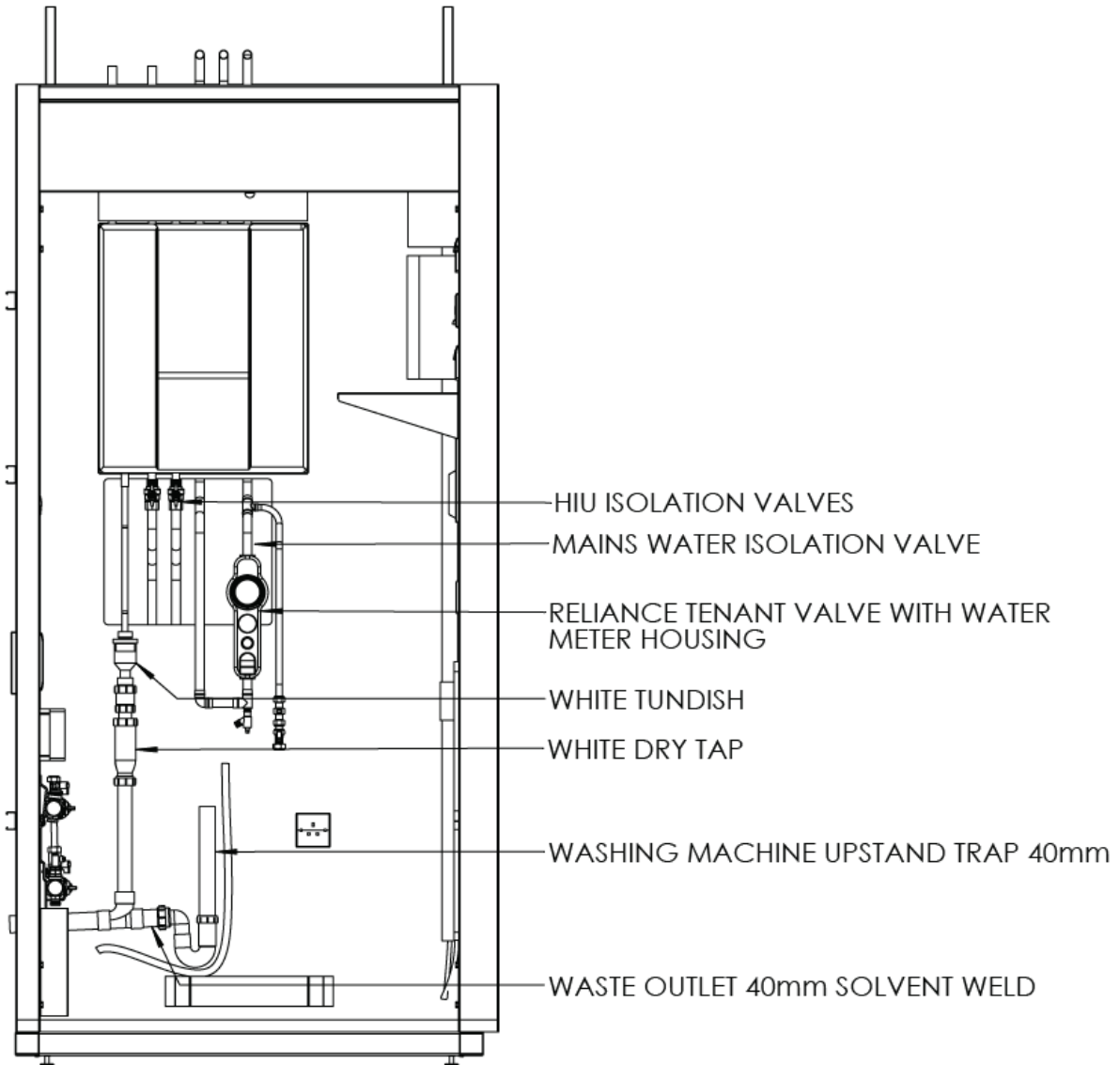


Figure 3.4B - The Tenant Valve Assembly

1.5 Utility Cupboard Isolation Points



- 1 - HEATING CONTROL SWITCH
- 2 - HEATING CONTROL FUSE
- 3 - MEV SWITCH
- 4 - MEV FUSE
- 5 - WASHING MACHINE SWITCH
- 6 - SPARE

2. Manufacturer Instructions

2.1 Digital Thermostat

Please refer to the document on the following page for Thermostat instructions.



uponor

Uponor Programmable Digital Thermostat T-26 230 V, Wired

UK QUICK GUIDE

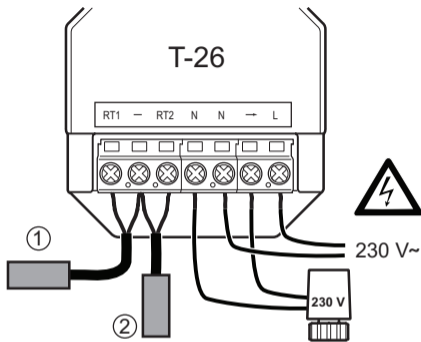
DE KURZANLEITUNG

ES GUÍA RÁPIDA

NL BEKNOPTE HANDLEIDING





Revision 4
Ref: UPN PRT-EV2
1095608

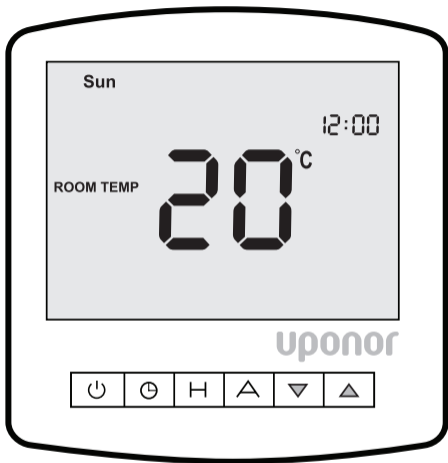
09 | 2019



	Pos 1	Pos 2
UK	Floor sensor (optional)	Remote sensor (optional)
DE	Bodenfühler (optional)	Fernfühler (optional)
ES	Sonda de suelo (opcional)	Sonda remota (opcional)
NL	Vloervoeler (optioneel)	Externe voeler (optioneel)

Icons • Symbolen • Iconos • Pictogrammen

	<ul style="list-style-type: none"> Ⓢ UK Heat on Ⓢ DE Heizung Ein Ⓢ ES Calefacción activada Ⓢ NL Verwarming aan 	
	<ul style="list-style-type: none"> Ⓢ UK Frost protection on Ⓢ DE Frostschutz Ein Ⓢ ES Protección antihelada Ⓢ NL Vorstbeveiliging aan 	
	<ul style="list-style-type: none"> Ⓢ UK Key lock Ⓢ DE Tastensperre Ⓢ ES Bloqueo de teclas Ⓢ NL Toetsenvergrendeling 	<p>(A + ▽) 10s</p>
	<ul style="list-style-type: none"> Ⓢ UK Floor set temperature Ⓢ DE Einstellung Bodentemperatur Ⓢ ES Temperatura seleccionada para el suelo Ⓢ NL Ingestelde vloertemperatuur 	



UK

Time & temperature schedule

Default screen

DE

Zeit- und Temperatur- Einstellungen

Standardanzeige

ES

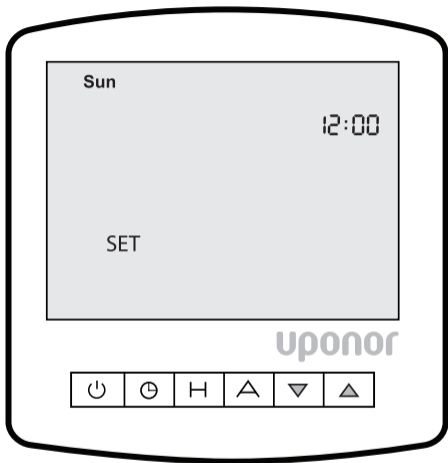
Programación de hora y temperatura

Pantalla predeterminada

NL

Tijd- en temperatuurschema

Standaardscherm



UK

Time & temperature schedule

Press **⏸** twice.

Use **▽△** to adjust time.

Press **H** to accept.

Use **▽△** to adjust day of the week.

Press **A** to exit.

ES

Programación de hora y temperatura

Pulse **⏸** dos veces.

Use **▽△** para ajustar la hora.

Pulse **H** para aceptar.

Use **▽△** para ajustar el día de la semana.

Pulse **A** para salir.

DE

Uhrzeit und Datum einstellen

Zweimal **⏸** drücken.

Mit **▽△** die Uhrzeit einstellen.

Mit **H** bestätigen.

Mit **▽△** den Wochentag einstellen.

Mit **A** verlassen.

NL

Tijd- en temperatuurschema

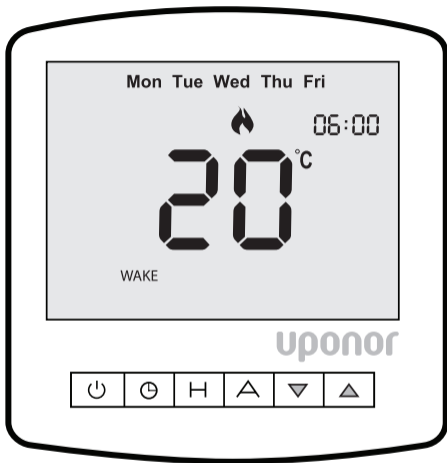
Druk tweemaal op **⏸**.

Gebruik **▽△** om de tijd in te stellen.

Druk op **H** om te accepteren.

Gebruik **▽△** om de dag van de week in te stellen.

Druk op **A** om af te sluiten.



UK

Time & temperature schedule

Press **G** once.

Use $\nabla\Delta$ to adjust wake time.

Use **H** to accept.

Use $\nabla\Delta$ to adjust temperature.

Press **H** to accept.

ES

Programación de hora y temperatura

Pulse **G** una vez.

Use $\nabla\Delta$ para ajustar la hora.

Pulse **H** para aceptar.

Use $\nabla\Delta$ para ajustar la temperatura.

Pulse **H** para aceptar.

DE

Auf- und Abheizzeiten einstellen

Einmal **G** drücken.

Mit $\nabla\Delta$ den Wecker einstellen.

Mit **H** bestätigen.

Mit $\nabla\Delta$ die Temperatur einstellen.

Mit **H** bestätigen.

NL

Tijd- en temperatuurschema

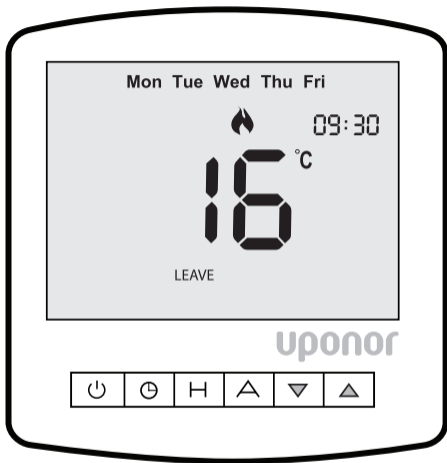
Druk eenmaal op **G**.

Gebruik $\nabla\Delta$ om de wektijd in te stellen.

Gebruik **H** om te accepteren.

Gebruik $\nabla\Delta$ om de temperatuur in te stellen.

Druk op **H** om te accepteren.



UK

Time & temperature schedule

Press $\nabla\Delta$ to adjust leave time.

Press **H** to accept.

Use $\nabla\Delta$ to adjust temperature.

Press **H** to accept.

N.B. Uponor recommend reducing the occupied temperature by 4 °C.

ES

Programación de hora y temperatura estando ausente de casa

Use $\nabla\Delta$ para ajustar la hora.

Pulse **H** para aceptar.

Use $\nabla\Delta$ para ajustar la temperatura.

Pulse **H** para aceptar.

Nota: Uponor recomienda reducir la temperatura de las estancias desocupadas 4 °C.

DE

Auf- und Abheizzeiten einstellen

Mit $\nabla\Delta$ die Abwesenheitszeit einstellen.

Mit **H** bestätigen.

Mit $\nabla\Delta$ die Temperatur einstellen.

Mit **H** bestätigen.

Hinweis: Uponor empfiehlt eine Absenkttemperatur von ca. 4 °C

NL

Tijd- en temperatuurschema

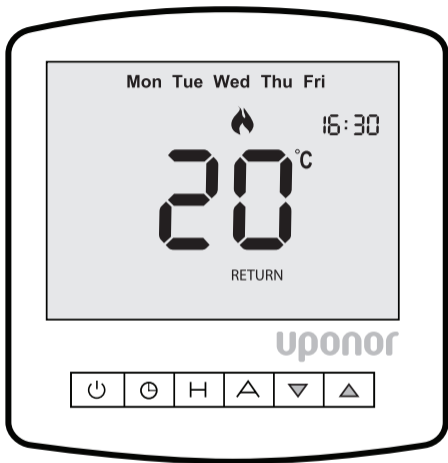
Druk op $\nabla\Delta$ om de vertrektijd in te stellen.

Druk op **H** om te accepteren.

Gebruik $\nabla\Delta$ om de temperatuur in te stellen.

Druk op **H** om te accepteren.

N.B. Uponor raadt aan de nietgebruikte temperatuur met 4 °C te verlagen.



UK

Time & temperature schedule

Use $\nabla\Delta$ to adjust return time.

Press **H** to accept.

Use $\nabla\Delta$ to adjust temperature.

Press **H** to accept.

ES

Programación de hora y temperatura al regresar a casa

Use $\nabla\Delta$ para ajustar el tiempo de retorno.

Pulse **H** para aceptar.

Use $\nabla\Delta$ para ajustar la temperatura.

Pulse **H** para aceptar.

DE

Auf- und Abheizzeiten einstellen

Mit $\nabla\Delta$ die Rückkehrzeit einstellen.

Mit **H** bestätigen.

Mit $\nabla\Delta$ die Temperatur einstellen.

Mit **H** bestätigen.

NL

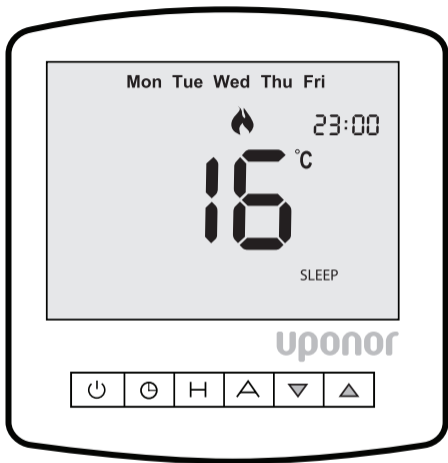
Tijd- en temperatuurschema

Gebruik $\nabla\Delta$ om de terugkeertijd in te stellen.

Druk op **H** om te accepteren.

Gebruik $\nabla\Delta$ om de temperatuur in te stellen.

Druk op **H** om te accepteren.



UK

Time & temperature schedule

Use $\nabla\Delta$ to adjust sleep time.

Press **H** to accept.

Use $\nabla\Delta$ to adjust temperature.

Press **H** to accept.

ES

Programación de hora y temperatura nocturna

Use $\nabla\Delta$ para ajustar el tiempo de inactividad.

Pulse **H** para aceptar.

Use $\nabla\Delta$ para ajustar la temperatura.

Pulse **H** para aceptar.

DE

Auf- und Abheizzeiten einstellen

Mit $\nabla\Delta$ die Ruhezeit einstellen.

Mit **H** bestätigen.

Mit $\nabla\Delta$ die Temperatur einstellen.

Mit **H** bestätigen.

NL

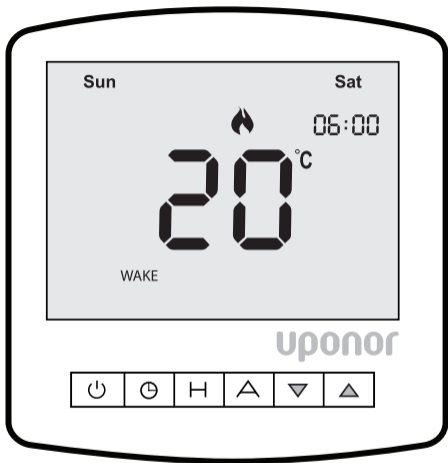
Tijd- en temperatuurschema

Gebruik $\nabla\Delta$ om de slaaptijd in te stellen.

Druk op **H** om te accepteren.

Gebruik $\nabla\Delta$ om de temperatuur in te stellen.

Druk op **H** om te accepteren.



UK

Time & temperature schedule

Repeat page 8 to 15 for weekend time and temperature schedule. Press **A** at end of sequence to store and exit.

ES

Programación de hora y temperatura durante el fin de semana

Repita los pasos descritos desde la página 8 a la 15 para programar la hora y la temperatura del fin de semana. Pulse **A** al final de la secuencia para guardar y salir.

DE

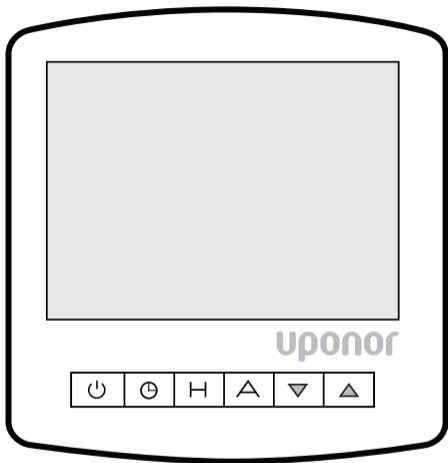
Auf- und Abheizzeiten Sa-So einstellen

Die Anweisungen auf den Seiten 8 bis 15 bei der Einstellung der Auf- und Abheizzeiten für Sa-So wiederholen. Am Ende der Sequenz mit **A** speichern und verlassen.

NL

Tijd- en temperatuurschema

Herhaal pagina 8 tot en met 15 voor weekendtijd en temperatuurschema. Druk op **A** aan het einde van de procedure om op te slaan en af te sluiten.



UK

Standby mode

Press and hold  to switch off.

DE

Standby-Modus

Zur Abschaltung  gedrückt halten.

ES

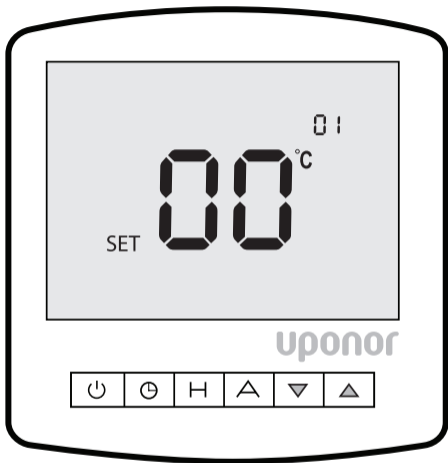
Apagado

Mantenga pulsado  para apagar.

NL



Standby-modus

Houd  ingedrukt om uit te schakelen.





UK

Settings

1. Press and hold  to switch off.
2. Press and hold  until the screen shown on the left is displayed.



ES

Ajustes

1. Mantenga pulsado  para apagar.
2. Mantenga pulsado  hasta que se visualice la pantalla de la izquierda.



DE

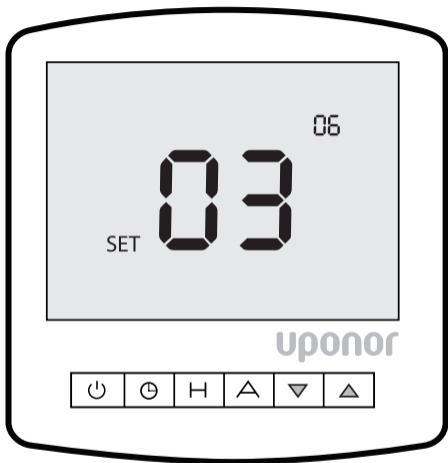
Einstellungen

1. Zur Abschaltung  gedrückt halten.
2. Die Schaltfläche  gedrückt halten, bis die Anzeige gemäß Abbildung links erscheint.

NL

Instellingen

1. Houd  ingedrukt om uit te schakelen.
2. Houd  ingedrukt tot het links getoonde scherm verschijnt.



UK

Sensor selection

Select function 06 by pressing **⏻**.

Use **▽**/**△** to select sensor mode.

00 = built in air sensor only.

01 = remote air sensor only.

02 = floor sensor only.

03 = floor sensor and built in air sensor.

04 = floor and remote air sensor.

Press **A** to store and exit.

Press **⏪** to return to main screen.

ES

Selección del modo de sonda

Seleccione la función 06 pulsando **⏻**.

Use **▽**/**△** para seleccionar el modo de sonda.

00 = sonda de aire incorporada.

01 = sonda de aire remota.

02 = solo sonda de suelo.

03 = sonda de suelo y sonda de aire.

04 = sonda de suelo y sonda de aire remota.

Pulse **A** para guardar y salir.

Pulse **⏪** para volver a la pantalla principal.

DE

Fühler-Auswahl

Funktion 06 durch Betätigung von **⏻** auswählen. Mit **▽**/**△** die Fühler-betriebsart auswählen.

00 = nur Raumthermostat.

01 = nur Fernfühler.

02 = nur Bodenfühler.

03 = Bodenfühler und Raumthermostat.

04 = Boden- und Fernfühler.

Mit **A** speichern und verlassen.

Mit **⏪** zum Hauptfenster zurückkehren.

NL

Voeler selectie

Selecteer functie 06 door te drukken op **⏻**. Gebruik **▽**/**△** om de voelermodus te selecteren.

00 = alleen ingebouwde luchtvoeler.

01 = alleen externe luchtvoeler.

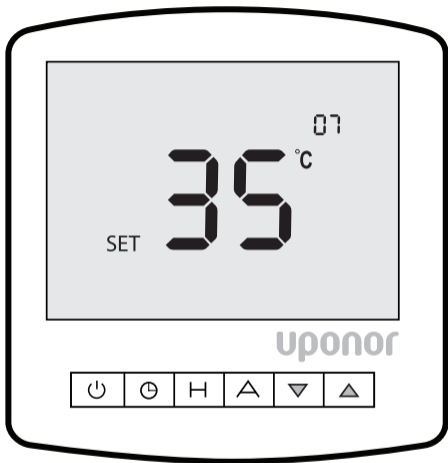
02 = alleen vloervoeler.

03 = vloervoeler en ingebouwde luchtvoeler

04 = vloervoeler en externe luchtvoeler.



Druk op **A** om op te slaan en af te sluiten.

Druk op **⏪** om terug te keren naar het hoofdscherm.





UK

Floor limiting sensor

Select function 07 by pressing .
Use $\nabla\Delta$ to adjust floor temperature.
Press **A** to store and exit.
Press  to return to main screen.



ES

Selección de la temperatura máxima del suelo

Seleccione la función 07 pulsando .
Use $\nabla\Delta$ para ajustar la temperatura del suelo.
Pulse **A** para guardar y salir.
Pulse  para volver a la pantalla principal.



DE

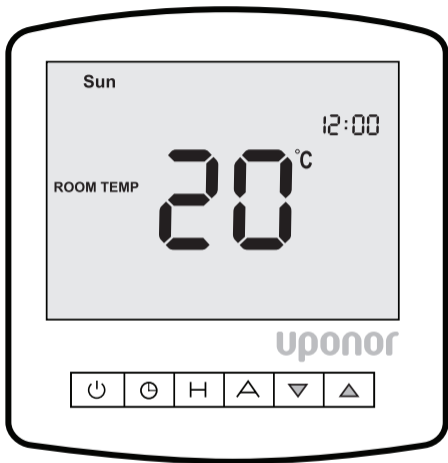
Bodenfühler

Funktion 07 durch Betätigung von  auswählen.
 $\nabla\Delta$ Einstellung der Bodentemperatur.
Mit **A** speichern und verlassen.
Mit  zum Hauptfenster zurückkehren.

NL

Maximale vloertemperatuur

Selecteer functie 07 door te drukken op .
Gebruik $\nabla\Delta$ om de vloertemperatuur in te stellen.
Druk op **A** om op te slaan en af te sluiten.
Druk op  om terug te keren naar het hoofdscherm.



UK

Temperature set-point

Press $\nabla\Delta$ to adjust temperature.

Press **A** to accept.

Temperature is now set until the next scheduled change.

ES

Temperatura de consigna

Pulse $\nabla\Delta$ para ajustar la temperatura.

Pulse **A** para aceptar.

La temperatura está fijada ahora, hasta el próximo cambio programado.

DE

Temperatur-Sollwert

Mit $\nabla\Delta$ die Temperatur einstellen.

Mit **A** bestätigen.

Die Temperatur ist jetzt bis zum nächsten geplanten Wechsel eingestellt.

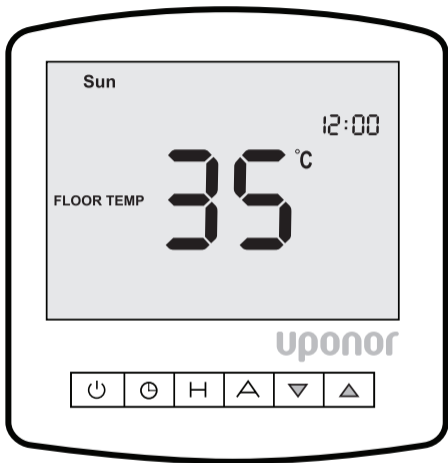
NL

Temperatuur set-point

Druk op $\nabla\Delta$ om de temperatuur in te stellen.

Druk op **A** om te accepteren.

De temperatuur is nu ingesteld tot de volgende geplande verandering.



UK

Floor temperature

Press and hold **A** to view floor temperature.

Floor temperature will display for 5 seconds.

DE

Bodentemperatur

Zur Anzeige der Bodentemperatur **A** gedrückt halten.

Die Bodentemperatur wird 5 Sekunden lang angezeigt.

ES

Temperatura del suelo

Mantenga pulsado **A** para ver la temperatura del suelo.

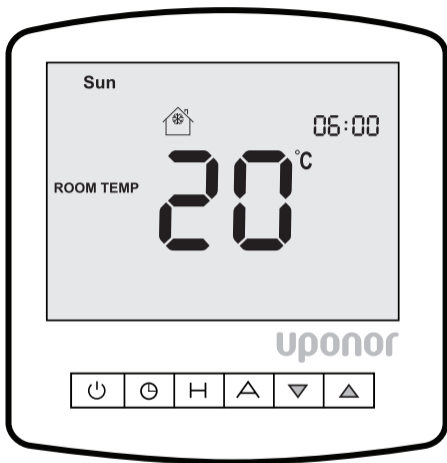
La temperatura del suelo se mostrará durante 5 segundos.

NL

Vloertemperatuur

Houd **A** ingedrukt om de vloertemperatuur te bekijken.

De vloertemperatuur wordt 5 seconden lang weergegeven.



UK

Frost protection

Press  to enable frost protection

Press  to disable frost protection

DE

Frostschutz


Mit  den Frostschutz aktivieren.

Mit  den Frostschutz deaktivieren.

ES


Protección de congelación


Pulse  para habilitar la protección antihelada

Pulse  para deshabilitar la protección antihelada.

NL

Vorstbeveiliging

Druk op  om de vorstbeveiliging in te schakelen

Druk op  om de vorstbeveiliging uit te schakelen

Feature	Description	Setting
01	Temperature Format	00 = °C 01 = °F
02	Switching Differential	01-03 °C (01 °C default)
03	Frost Mode	00 = Enabled (default) 01 = Disabled
04	Output Delay	00-15 Minutes (00 default)
05	Up/Down Temp Limit	00-10 °C (00 °C default)
06	Sensor Selection	00 = Built In Air Sensor (default) 01 = Remote Air Sensor 02 = Floor Sensor Only 03 = Floor Sensor and Built In Air Sensor 04 = Floor Sensor and Remote Air Sensor

Feature	Description	Setting
07	Floor Limiting Sensor	20-45 °C (27 °C default)
08	Optimum Start	00-03 (00 hours default)
09	Rate of Change	Minutes to raise by 1 °C
10	Mode Select	00 = 5/7 day programming (default) 01 = 7 day programming 02 = 24h Programming
11	Thermostat Mode	00 = Manual 01 = Programmable (default)

Funktion	Beschreibung	Einstellungen
01	Einheiten	00 = °C 01 = °F
02	Schaltdifferenz	01-03 °C (Standard 01 °C)
03	Frostschutz	00 = Aktiviert (Standard) 01 = Deaktiviert
04	Schaltverzögerung	00-15 Minuten (Standard 00)
05	Absenkttemperatur	00-10 °C (Standard 00 °C)
06	Sensorauswahl	00 = nur Raumthermostat 01 = nur Fernfühler 02 = nur Bodenfühler 03 = Bodenfühler und Raumthermostat 04 = Boden- und Fernfühler
07	Bodenfühler	20-45 °C (Standard 27 °C)

Funktion	Beschreibung	Einstellungen
08	Startoptimierung	00-03 (Standard 00 Stunden)
09	Änderungs- geschwindigkeit	Minuten um den Wert um 1 °C zu erhöhen
10	Auswahl Betriebsart	00 = 5/7-Tage-Programmierung (Standard) 01 = 7-Tage-Programmierung 02 = 24h Programmierung
11	Thermostat-Modus	00 = Manuell 01 = Programmierbar (Standard)

Función	Descripción	Ajuste
01	Formato de temperatura	00 = °C 01 = °F
02	Diferencial de cambio	01-03 °C (predeterminado 01 °C)
03	Modo antihelada	00 = Habilitado (predeterminado) 01 = Deshabilitado
04	Retardo de salida	00-15 minutos (predeterminado 00)
05	Límite de tiempo arriba/abajo	00-10 °C (predeterminado 00 °C)
06	Selección de sonda	00 = sonda de aire incorporada (predeterminado) 01 = sonda aire remota 02 = sonda de suelo 03 = sonda de suelo y sonda de aire 04 = sonda de suelo y sonda de aire remota

Función	Descripción	Ajuste
07	Limite de la sonda de suelo.	20-45 °C (predeterminado 27 °C)
08	Inicio óptimo	00-03 (predeterminado 00 horas)
09	Índice de cambio	Minutos para aumentar 1 °C
10	Modo selección	00 = 5/7 Programación diaria (predeterminado) 01 = programación de 7 días 02 = Programación 24h
11	Modo de termostato	00 = Manual 01 = Programable (Predeterminado)

Functie	Beschrijving	Instelling
01	Temperatuurformaat	00 = °C 01 = °F
02	Schakeldifferentiaal	01-03 °C (01 °C standaard)
03	Vorstmodus	00 = ingeschakeld (standaard) 01 = uitgeschakeld
04	Uitvoer vertraging	00-15 minuten (00 standaard)
05	Temp. Grens hoger/lager	00-10 °C (00 °C standaard)
06	Voelerselectie	00 = ingebouwde luchtvoeler (standaard) 01 = externe luchtvoeler 02 = alleen vloervoeler 03 = vloervoeler en ingebouwde luchtvoeler 04 = vloervoeler en externe luchtvoeler

Functie	Beschrijving	Instelling
07	Vloergrensvouler	20-45 °C (27 °C standaard)
08	Startoptimalisatie	00-03 (00 uur standaard)
09	Veranderingsnelheid	Minuten voor stijgen met 1 °C
10	Modusselectie	00 = 5/7 daags programmering (standaard) 01 = 7-dagenprogramma 02 = 24h Programmering
11	Thermostaat modus	00 = Handmatig 01 = Programmeerbaar (standaard)

Uponor reserves the right to make changes, without prior notification, to the specification of incorporated components in line with its policy of continuous improvement and development.

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2.2 Towel Rail Timer

Please refer to the document on the following page for Towel Rail Timer instructions.

TIMEGUARD®

*Supply***MASTER**®

Fused Spur Time Switch

Model: FST24 – 24 Hour Timer

Model: FST77 – 7 Day Timer



Installation & Operating Instructions

1. General Information

These instructions should be read carefully and retained for further reference and maintenance.

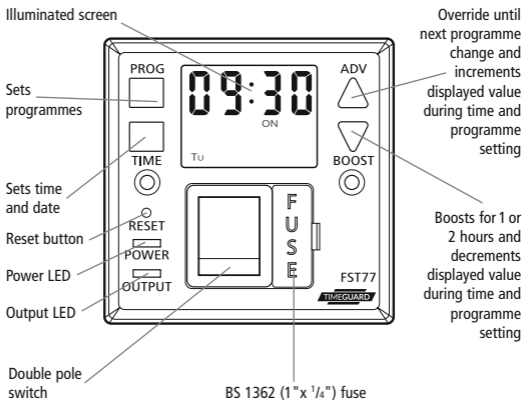
2. Safety

- Before installation or maintenance, ensure the mains supply to the time switch is switched off and the circuit supply fuses are removed or the circuit breaker turned off.
- It is recommended that a qualified electrician is consulted or used for the installation of this time switch and install in accordance with the current IEE wiring and Building Regulations.
- Check that the total load on the circuit including when this time switch is fitted does not exceed the rating of the circuit cable, fuse or circuit breaker.

3. Technical Specifications

- 230V AC 50 Hz
- Fused: Supplied with BS1362 13A Fuse
- Switch Rating: 13A Resistive (3kW)
750W Incandescent,
Halogen lighting
500W Fluorescent lighting
200W LED lighting
100W Compact Fluorescent lighting
- Contact Type: Normally Open
- Minimum Depth of Wall Box: 25mm
- Boost Times: 1, 2 hours
- Power Status LED Indicator: Red
- Output LED Indicator: Green
- Operating Temperature: 0°C to +40°C
- CE Approved
- Dimensions (H x W x D): 85mm x 85mm x 31mm

Note: Not suitable for use with Discharge Lighting.



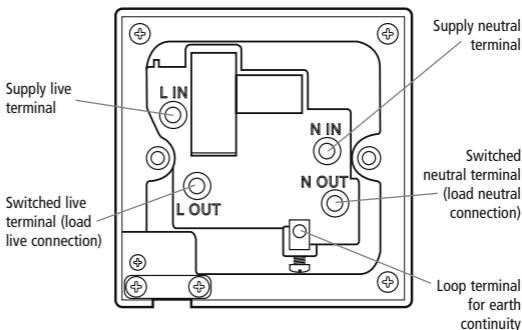
2

4. Installation

- Ensure the mains supply is switched off and the circuit supply fuses are removed or the circuit breaker turned off.
- Connect the incoming 230V 50Hz supply and outgoing load cables to the relevant terminals ensuring correct polarity is observed and that all bare conductors are sleeved (see section 5. Connection Diagram).
- A front cable exit cut-out is provided with a pre-installed removable cover.
- If the front exiting cable cut-out is required:
 1. Undo the 2 fixing screws and remove the blanking plate (you can discard the blanking plate at this stage but keep the 2 fixing screws).
 2. Remove the cable grip from the accessory pack.
 3. Using the 2 fixing screws previously removed from the blanking plate, secure the load cable to the unit.
- Finally secure the unit to the back box with the fixing screws provided, forming the cables during installation to avoid any entrapment and cable damage.

5. Connection Diagram

The terminals are marked as follows on the rear of the time switch;



3

Supply

Live (Brown or Red) to

L IN

Neutral (Blue or Black) to

N IN

Load

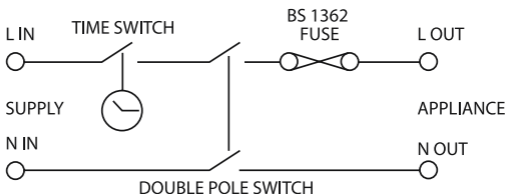
Switch Live (Brown or Red) to

L OUT

Neutral (Blue or Black) to

N OUT

Internal Schematic



6 Battery

- The unit has an in built non replaceable, rechargeable battery, which will keep the programmed times during power down situations for up to 4 weeks.
- If the screen goes blank, once power is restored, and 4 hours have elapsed (to give a working battery charge), Reset must be pressed, and times/programmes re-entered.
- Before programming for the first time, connect the unit to the mains for at least 15 minutes prior to pressing the Reset button and programming the unit.
- If the display is not visible or very faint, charge for 4 hours prior to pressing Reset and programming.

7. Reset

The unit must be reset before programming for the first time, or after subsequent discharge for more than 5 days, and following a 4 hour period of charging.

- Press the Rst button once using a pointed object e.g. a pencil or a paper clip.
- The display will show all characters/digits and then will clear to show the following:
ASCO = Automatic Summer/
Winter Change Over.



- Use the Adv/Ovr button to change between ON and OFF for the automatic summer time adjustment and proceed to section 9.

8 Setting the Clock

- Press and hold the Time button for 3 seconds, the word Hold will show on the screen.
- After 3 seconds release the Time button and the screen will show the year;



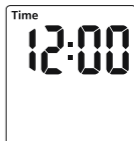
- Use the Adv/Ovr to increase (or the Boost buttons to decrease) the value and set to the correct year.
- Press the Time button once to save the year, and the screen will show the month;



- Use the Adv/Ovr or boost button to set the correct month.
- Press the Time button once to save the month, and the screen will show the day;



- Press the Time button once to save the day, and the screen will show the time – hour first; Note: The hour is in 24 hour format.



- Use the Adv/Ovr or boost button to adjust to the correct hour.
- Press the Time button once to save the hour, and the minutes can be adjusted.
- Use the Adv/Ovr or boost button to adjust to the correct minutes.
- Press the Time button once to exit the Time/date entry mode.
- The display should now show the correct time/day of the week, for example;



Modifying the date and time of day

Normally the only change required will be to the time of day minutes, in which case;

- Press and hold the Time button for 3 seconds, the word Hold will show on the screen.
- After 3 seconds release the Time button and the screen will show the year;



- Press the Time button repeatedly until the minutes are shown.
- Use Adv/Ovr or Boost to change the minutes to the correct value.
- Press the Time button once to return to operating mode.

Note: Other changes can be made the same way, but the Time button must be pressed to return to operating mode after any changes. There is no automatic exit from Time/date entry mode.

9. Programming ON/OFF times

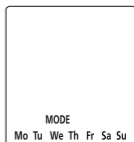
The FST24/77 has 4 independent On/Off periods available for programming each day.

For the FST24, 24 hours is the only option, so all 7 days will be the same.

For the FST77 there is a choice of programming options, including 7 days the same (24 hours), 5 + 2 days (where the weekdays are the same, and the two weekend days are the same), and 7 individual days.

- Press and hold the Prg button for 3 seconds, the word Hold will show on the screen.
- After 3 seconds release the Prg button and the MODE screen will be displayed;
- For the FST77 Use the Adv/Ovr or Boost to change the day grouping mode.

This will step through the following options;



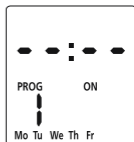
24 hour: Mo Tu We Th Fr Sa Su

5 day: Mo Tu We Th Fr (followed automatically in programming by 2 day – Sa Su)

Individual day: Mo (followed automatically in programming by each of the other days of the week)

Note: For the FST24, Mo Tu We Th Fr Sa Su is the only option.

- Once the desired day grouping is selected, press Prg button once to set and move onto programming the ON/OFF times.



- The display will show Prog 1, with dashes for the hours and minutes;

Note: the example shown is for 5 day + 2 day programming.

- Use Adv/Ovr or Boost button to set the hour for the first ON period.
- Press the Prg button once to set and move you to the minutes.
- Use Adv/Ovr or Boost button to set the minutes for the first ON period.
- Press the Prg button once to set and move you to the Programme 1 OFF time.
- Use Adv/Ovr or Boost button to set the hour for the first OFF period.
- Press the Prg button once to set and move you to the minutes.
- Use Adv/Ovr or Boost button to set the minutes for the first OFF period.
- Press the Prg button to scroll through Programme 2 ON, Programme 2 OFF, Programme 3 ON, Programme 3 OFF, Programme 4 ON and programme 4 OFF, adding in times as required.

Note: If further times are not required, just leave the dashes in place and scroll past the rest of the programs using the Prg button.

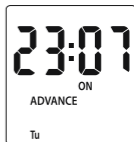
- After Programme 4 has been entered, then next day grouping will follow e.g. In this example the day grouping will change to 2 day – Sa Su Programme 1 ON.
- Programme the ON/OFF times as before.
- After the last OFF time for programme 4 has been set, press the Prg button once to exit the programme mode.

Note: At any stage in programming, if the Prg button is pressed and held for 3 seconds, the timer will return to normal operating mode.

- The display will now show the correct time and day as per this example;



- At this stage the output ON/OFF indicator (as in the above image) may not reflect the current programme status accurately.
- If the time switch should be OFF now, leave as it is.
Note: The time switch will automatically turn ON at your desired ON time, and will resume the next programme as normal.
- If the time switch should be ON now, press the Adv button once and set it to ON ADVANCE.



Note: The time switch will now automatically turn OFF at your desired OFF time, and will resume the next programme as normal.

- In the same way as for individual programmes, days or groups of days can be omitted either by leaving dashes in all the locations for ON/OFF times for that day or group of days. Alternatively, leaving the programme entry mode before filling in all the ON/OFF times will leave the remaining times blank.
Note: The only way to re-enter a blank times (or dashes) is to reset the unit.

Programming across midnight

- Enter the required programme 1 ON time.
- Set the programme 1 OFF time to 00:00 (i.e. midnight)
- Set the programme 2 ON time to 00:00 as well.
- Enter the required programme 2 OFF time for the next day.

Modifying or adding programmes

- Press and hold the Prg button for 3 seconds, the word Hold will show on the screen.
- After 3 seconds release the Prg button and the MODE screen will be displayed.

Note: This will automatically display the mode in which it was last programmed. For instance, if it was programmed in 5 + 2, then it will show Mo Tu We Th Fr.

- Either – Accept this by pressing the Prg button once, and review the programmed times for this mode by pressing Prg to move through the times
- Or – Press the Adv/Over or Boost button to change the mode, and then press the Prg button to review the times.

Note: If you wish to change the mode at this stage, doing so will result in programmes being lost and they will need to be re-entered.

- Review times and adjust as necessary as described at the start of section 9.

10. Advance/Override button

In normal operating mode the Adv/Ovr button advances the programme to the next time change.

- If the output is currently OFF, it will change the output to ON ADVANCE, until the next programmed OFF time.
- If the output is currently ON, it will change the output to OFF ADVANCE, until the next programmed ON time.
- A second push of the Adv/Ovr button selects a permanent ON mode, ON OVERRIDE, where the output is ON irrespective of the programming.
- A third push of the Adv/Ovr button selects a permanent OFF mode, OFF OVERRIDE, where the output is OFF irrespective of the programming.
- A fourth push of the Adv/Ovr button returns the unit to normal operating mode, where the output will conform to the programming.

11. Boost button

- One press of the boost button will provide 1 hours of boost, after which the output will turn OFF.
- Two presses of the boost button will provide 2 hours of boost, after which the output will turn OFF.
- A third press of the boost button will cancel any boost period and return you to normal operating mode.

3 Year Guarantee

In the unlikely event of this product becoming faulty due to defective material or manufacture within 3 years of the date of purchase, please return it to your supplier in the first year with proof of purchase and it will be replaced free of charge. For the second and third years or any difficulty in the first year telephone the helpline on 020 8450 0515.

Note: A proof of purchase is required in all cases. For all eligible replacements (where agreed by Timeguard) the customer is responsible for all shipping/postage charges outside of the UK. All shipping costs are to be paid in advance before a replacement is sent out.



If you experience problems, do not immediately
return the unit to the store.
Telephone the Timeguard Customer Helpline;

HELPLINE
020 8450 0515

or email helpline@timeguard.com

Qualified Customer Support Co-ordinators will be on-line
to assist in resolving your query.



A **theben** Group Company

For a product brochure please contact:

Timeguard Limited.

Victory Park, 400 Edgware Road,
London NW2 6ND

Sales Office: 020 8452 1112
or email csc@timeguard.com

www.timeguard.com