# heatmiser®

# EDGE-E

Model: **edge-e**
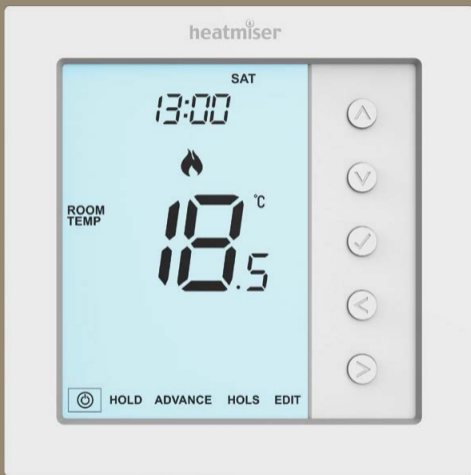
# Table of Contents

# ? What is a Programmable Room Thermostat?

A programmable room thermostat is both a programmer and a room thermostat.

A programmer allows you to set "On" and "Off" periods to suit your own lifestyle.

A room thermostat works by sensing the air temperature, switching on the heating when the air temperature falls below the thermostat setting, and switching it off once this set temperature has been reached.

So a programmable room thermostat lets you choose what times you want the heating to be on, and what temperature it should reach while it is on. It will allow you to select different temperatures in your home at different times of the day (and days of the week) to meet your particular needs and preferences.

Setting a programmable room thermostat to a higher temperature will not make the room heat up any faster. How quickly the room heats up depends on the design and size of the heating system.

Similarly reducing the temperature setting does not affect how quickly the room cools down. Setting a programmable room thermostat to a lower temperature will result in the room being controlled at a lower temperature, and saves energy.

The way to set and use your programmable room thermostat is to find the lowest temperature settings that you are comfortable with at the different times you have chosen, and then leave it alone to do its job.

The best way to do this is to set the room thermostat to a low temperature – say 18°C , and then turn it up by 1°C each day until you are comfortable with the temperature. You won't have to adjust the thermostat further. Any adjustment above this setting will waste energy and cost you more money.

You are able to temporarily adjust the heating program by overriding or using the temperature hold feature.  These features are explained further on pages 20 and 21 of this manual.

Programmable room thermostats need a free flow of air to sense the temperature, so they must not be covered by curtains or blocked by furniture. Nearby electric fires, televisions, wall or table lamps may also prevent the thermostat from working properly.

# Installation Procedure

**Do**
Mount the edge-e at eye level.
Read the instructions fully so you get the best from our product.

**Don't**
Do not install near to a direct heat source as this will affect functionality.
Do not push hard on the LCD screen as this may cause irreparable damage.

*This thermostat is designed to be flush mounted and requires a back box of 35mm (minimum depth) to be sunk into the wall prior to installation.*

**Step 1**
Using a small screwdriver, slightly loosen the screw from the bottom face of the thermostat. You can then carefully separate the front half from the back plate.

**Step 2**
Place the edge-e LCD front plate somewhere safe.
Terminate the edge-e as shown in the diagrams on page 31 of this booklet.
*Note: For time clock wiring connections, terminate as shown on pages 39.*

**Step 3**
Screw the edge-e back plate securely into the back box.

**Step 4**
Replace the front of the thermostat onto the back plate, by locating the pins in the socket then insert the top edge first. Now push in the bottom edge, securing it in place with the retaining screw.
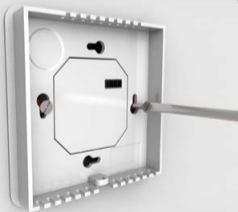
# 🔧 Mode Select

Edge-e can either be used as a thermostat or a time clock. Thermostat mode is the default setting.

To change between thermostat & time clock modes, follow these steps.

- Use the 'Left/Right' arrow keys to highlight ⏱ then press and **hold** the ✓ button for 3 seconds ................................................................ **< > ✓**

    *At this point the screen will go blank showing only 'SETUP' and 'CLOCK'.*

- Tap either of the 'Up' or 'Down' arrow keys to highlight 'SETUP', then **hold** the ✓ key for 10 seconds ........................................................ **∧ ∨ ✓**

    *The edge-e will factory reset then provide 2 selectable mode options.*

- Use the Left / Right keys to scroll between modes ............................... **< >**

    Mode 1 = Thermostat
    Mode 2 = Time Clock
    *Note: the selected option will flash.*

- Press the ✓ key to confirm selection ................................................ **✓**

    *The edge-e will reset all parameters and restart in the selected mode.*

*Note: The Mode Select function will reset all parameters **(Wireless Air Sensors and Window/Door Contacts excluded)** that were entered during the set-up operations. These processes must be repeated after the restart has completed.*

## 1 Mode 1 - Thermostat

MON TUE WED THU FRI SAT SUN

1
2
3
4
5
6
7 ADVANCED
8 UNTIL HOLD
9
10 ROOM TEMP
FLOOR TEMP
SET
11
12
13
14
15
16
17
18 TIME YEAR LEFT

DAY    MONTH

℃℉

PREHEAT ACTIVE
FROST PROTECTION ACTIVE

1    2    3    4    5    6    DONE

| ⏻ | HOLD | ADVANCE | HOLS | EDIT |

# LCD Display
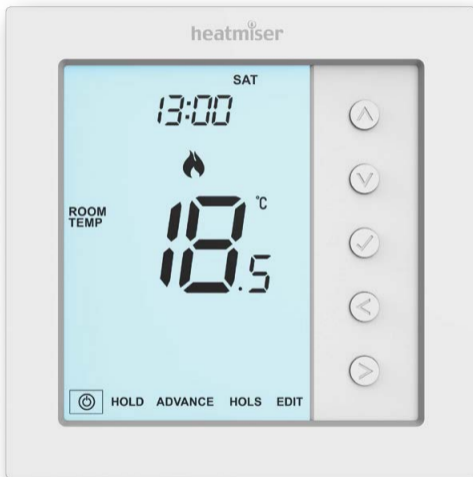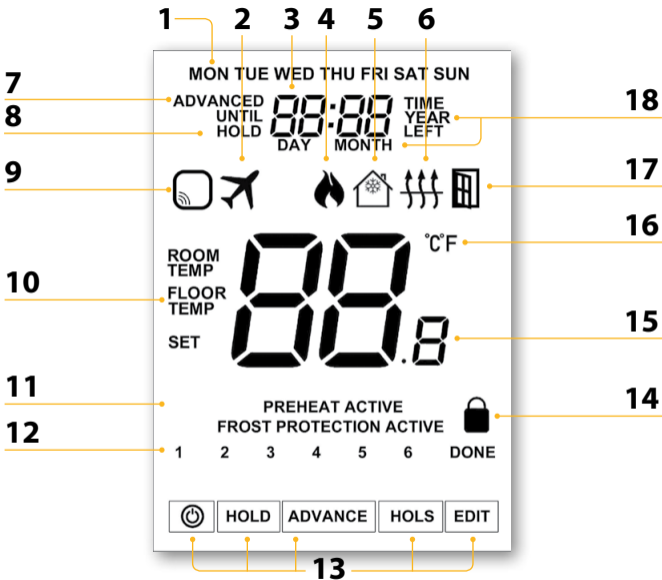
1. Day Indicator - Displays the day of the week.
2. Holiday – Displayed when the thermostat is in holiday mode.
3. Clock - Time displayed in 24 hour format.
4. Flame Symbol – Displayed when the thermostat is calling for heat and flashes when optimum start is active.
5. Frost Protection – Displayed when frost protection is enabled or activated by a Window/Door Switch.
6. Floor Limit Symbol – Displayed when the floor probe has reached the floor temperature limit configured in the setup menu.
7. Advanced Until - Displayed when the edge is advanced to the next programmed comfort level.
8. Hold Left - Displayed when a temperature hold is active, the remaining time will be shown.
9. Sensor Warning - Flashes on screen when the edge has failed to receive a signal from a Wireless Sensor or Window/Door Switch.
10. Floor/Room Temp & Set - Indicates the displayed sensor mode and when changes are being made to the current set point.
11. Active Status - Indication for 'Preheat' and 'Frost Protection' modes.
12. Program Indicator - Displayed during programming to show which period is being altered.
13. Main Menu – Highlighted text indicates selected option.
14. Keypad Lock Indicator – Displayed when the keypad is locked.
15. Temperature – Displays the current sensor temperature.
16. Temperature Format - Degrees Celsius or Fahrenheit.
17. Window Icon - Displays when Window/Door Switch is triggered.
18. Time/Day/Month/Year - Displays when setting the Clock/Calender or a Holiday Period.

# ⏻ Power On/Off

The heating is indicated ON when the flame icon is displayed.

When the Flame Icon is absent, there is no requirement for heating to achieve the set temperature but the edge-e remains active.

To turn the edge-e off completely, scroll to the Power Icon and hold the

✓ key for approximately 4 seconds until the display goes blank ........................... **< > ✓**

The display and heating output will be turned OFF.

To turn the edge-e back ON, press the ✓ key once ........................................................ **✓**

Thermostat completely OFF                    Thermostat powered ON

# ⏰ Setting the Time and Date

To set the clock, follow these steps.

- Use the 'Left/Right' arrow keys to highlight ⓪ then press and **hold** the
  ✓ button for 3 seconds ........................................................................................... **< > ✓**

  *At this point the screen will go blank showing only 'SETUP' and 'CLOCK'.*

- Tap the 'Up' followed by 'Right' keys to highlight 'CLOCK' ............................. **Λ >**

- Press ✓ to confirm selection ('Hour' digits will now flash) ........................... **✓**

- Use the 'Up/Down' arrow keys followed by ✓ to set the 'Hours' ................ **Λ V ✓**

- Use the 'Up/Down' arrow keys followed by ✓ to set the 'Minutes' ........... **Λ V ✓**

  *Repeat the previous two steps to set the date ('Day, Month & Year').*
  *Display will go blank once completed.*

- Press the 'Down' arrow key followed by ✓ to return to the
  main display ........................................................................................................... **Λ ✓**

# °C Temperature Display

This edge-e can be configured for different sensor options such as built sensor, floor sensor or both. The display will clearly indicate which sensor is being used by showing either 'ROOM TEMP' or 'FLOOR TEMP' to the left the actual value.



**Room Temperature**



**Floor Temperature**

When the edge-e is set to use both the air & the floor sensor, the room temperature will be displayed by default.

To view the current floor temperature, press and hold the Left and Right arrow keys for 5 seconds, the floor temperature will then be displayed .............................. **< >**

# Pairing Accessories

**Wireless Air Sensor. Door/Window - Wireless Contact Sensor**
(Not available in Time Clock mode).

You can pair a total of 16 accessories to a single edge thermostat.

### Wireless Air Sensor

Once a remote sensor is added, the edge-e will automatically display an average temperature between the 'Wireless Air Sensor' and the on-board sensor inside the thermostat. Averaging will also be calculated between multiple Air Sensors.

### Window/Door Wireless Contact Sensor

If any one of the 'Window/Door' contacts is broken, the edge-e thermostat will be alerted and will activate 'Frost Protection' mode.

The display will now show the icon (right) to indicate a window or door has been opened. Heating will not resume while this icon remains on screen.

### Pairing the Air Sensor and Window/Door Contact.

- Use the 'Left/Right' arrow keys to highlight ⏻ then press and **hold** the ✓ button for 3 seconds to turn off the display ....................................

- Tap the 'Up' key to select 'Setup' then press ✓ ............................................

- Press the 'Down' key until you see the letter 'P' displayed at the top of the screen then press ✓ .......................................................................................

*The thermostat will now start a 99 second countdown. During this time multiple sensors can be added.*

0 1:P

Number of accessories connected.

99

Countdown time

SETUP

- On the 'Air Sensor & Window/Door Contact', press and hold the pairing button for 5 seconds. The LED will glow red to indicate pairing status

**Window/Door Wireless Contact Sensor**

**Wireless Air Sensor**

Pair/Reset button

LED Indicator

Pair/Reset button

*If the sensor has successfully paired, the LED will go out after a few seconds. The thermostat display will then show '01:P' to indicate that the first accessory has joined. If countdown time elapses before all accessories have been paired, restart the countdown to add further sensors following the previous steps.*

## 👁 View Accessories

- Use the 'Left/Right' arrow keys to highlight ⏻. Press and hold ✔ for 3 seconds to turn off the display ..................................................................... **< > ✔**
- Tap the 'Up' key to select 'Setup' then press ✔ ............................................ **∧ ✔**
- Press the 'Down' key until you see the letter 'A' displayed at the top of the screen, then press ✔ ..................................................................................... **∨ ✔**

Accessory ID Number

Current Status

Low Battery Warning

*RO1*

*20* ℃ *.4* 🔋

SETUP

Example showing 'Wireless Air Sensor'.

- Use the 'Left/Right' arrow keys to scroll through the list of attached accessories.

*A 'Wireless Air Sensor' will show the current temperature. The 'Window/Door Contact' will display current open or closed status by showing 'OP' = Open, or 'CL'= Closed. If the edge loses connection with an accessory, the display will show "--". A battery warning symbol will be appear when an accessory reports low power. When this happens change the* **Lithium Cell CR2302 3V** *battery as soon as possible.*

# Removing Accessories

*There are two ways to remove an accessory from the edge-e thermostat.*

**On the Sensor/Switch**

- Press and hold down the pairing/reset button for 15 seconds on the 'Sensor/Switch'. LED indicator will flash 3 times to confirm reset.

**Window/Door Wireless Contact Sensor**          **Wireless Air Sensor**

Pair/Reset button          LED Indicator          Pair/Reset button
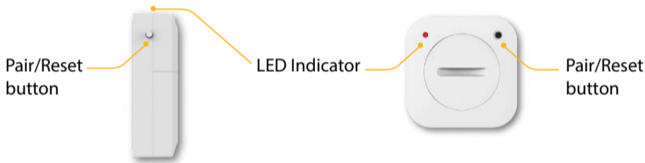
*At this point the 'Sensor/Contact' will notify the edge that it has left, and will automatically be removed from the 'Accessory Menu'.*

**On the edge-e thermostat**

- Follow the steps on page 16 to enter the accessory menu.
- Press the 'Left/Right' arrow keys to view the accessory that will be deleted.
- Press and hold down the ✓ button for 10 seconds until the sensor disappears from the menu .................................................................................................. ✓

*Note: You will also need to reset the sensor at this point.*

# 💬 Edit Comfort Levels

The edge-e offers three program mode options; Weekday/Weekend, 7 Day and 24 Hour programming. There is also the option to use the edge as a manual thermostat.

The thermostat is supplied with comfort levels already factory programmed, but these can be changed easily. The default times and temperature settings are;

07:00 - 21°C (Level 1)  09:00 - 16°C (Level 2)  16:00 - 21°C (Level 3)  22:00 - 16°C (Level 4)

Unused levels must be set to --:-- so that the edge-e will skip these and continue on to the next programmed time.

*For Weekday/Weekend programming, the four comfort levels are the same for Mon-Fri, but can be different for Sat-Sun. For 7 Day programming each day of the week can have four different comfort levels. In 24 Hour mode all days are programmed with the same comfort levels.*

- To program the 'Comfort Levels', use the 'Left/Right' keys to scroll to 'EDIT' ...... **< >**
- Press ✓ to confirm selection ................................................................................................ **✓**
- Use the 'Left/Right' keys to select day/period of week (the selection will flash) ...... **< >**
- Press ✓ to confirm selection ................................................................................................ **✓**
  'Level 1' will now flash and the current time and temperature setting will be shown.
- Press ✓ to alter 'Level 1' settings.................................................................................................. **✓**

- Use the 'Up/Down' keys to set the 'Hours' ................................................................ Λ V
- Press ✓ to confirm ........................................................................................................ ✓
- Use the 'Up/Down' keys to set the 'Minutes' ......................................................... Λ V
- Press ✓ to confirm ........................................................................................................ ✓
- Use the 'Up/Down' keys to set the temperature ................................................... Λ V
- Press ✓ to confirm the settings ............................................................................... ✓
- Press the 'Right' arrow key ....................................................................................... >

  'Level 2' will now flash and the current settings will be displayed.

- Press ✓ to alter 'Level 2' settings .......................................................................... ✓

  Repeat these steps to set all comfort levels.

  For any unused periods set time to --:--

- Use the 'Left/Right' keys to scroll to 'DONE' and press ✓ .......................... < > ✓

*You can you set up to a maximum of 6 levels by enabling these in the feature menu (see page 28)*

## ℃ Temperature Control

The 'Up/Down' keys allow you to adjust the set temperature ............................ ∧∨

When you press either key, you will see the word 'SET' and the desired
temperature value. Use the 'Up/Down' keys to adjust the 'SET' value .............. ∧∨

Press ✓ to confirm settings and return to the main display ................................... ✓



Until next programmed
'Comfort Level' time.

Set Temperature

*Note: This new temperature is maintained only until the next programmed comfort level.
At this time, the thermostat will revert back to the programmed levels.*

# Temperature Hold

The temperature hold function allows you to manually override the current operating program and set a different temperature for a desired period.

- Use the 'Left/Right' keys to scroll to 'Hold' and press ✓ ................................... < > ✓
- Repeatedly tap the 'Up/Down' keys to set the desired 'Hold' time (Hours) then press ✓ ........................................................................................... ∧ ∨ ✓

  Minutes will now flash.

- Repeatedly tap the 'Up/Down' keys to set the desired 'Hold' time (Minutes) then press ✓ ....................................................................................... ∧ ∨ ✓
- Use the 'Up/Down' keys to set the desired 'Hold' temperature ................... ∧ ∨ ✓
- Press ✓ to confirm selection ........................................................................................ ✓

You will see the 'HOLD LEFT' indication is displayed on screen.
The time will countdown the set duration and then revert to the normal program.

**Cancel/Edit Temperature Hold**

- Use the 'Left/Right' keys to scroll to 'Hold' and press ✓ ................................... < > ✓
- While 'CANCEL' is highlighted press ✓ to cancel 'Hold' and return to normal operation ............................................................................................................... ✓
- Alternatively, press the 'Left' arrow key to highlight 'EDIT' them press ✓ to adjust current 'Hold' settings................................................................................. < > ✓

To edit 'Hold' settings follow the same procedure as indicated in the steps at the top of this page.

# ⏩ Advance

This feature allows the next 'Comfort Level' setting to be brought forward and be active before its pre-programmed time.
*Note: Multiple advances aren't allowed.*

**To enable 'Advance'**

- Use the Left/Right keys to highlight 'ADVANCE' then press ✓ ................ **< >** ✓

  'ADVANCED UNTIL' time and the 'SET' temperature will now be displayed.

- Press ✓ again to confirm selection .......................................................................... ✓

- To view the 'SET' temperature during 'Advance' tap either the 'Up' or 'Down' key once. Press ✓ to exit ............................... **∧∨** ✓

- To change the 'SET' temperature during 'Advance', use the 'Up/Down' keys followed by ✓ to confirm ................................... **∧∨** ✓

'Advanced Until' time

**To cancel 'Advance'**

- Use the 'Left/Right' keys to highlight 'Advance' then press ✓ twice ........ **< >** ✓

# 🏠 Frost Protection

Use the 'Left/Right' keys to scroll to the 'Power Icon' ...................................................... **< >** ⏻

The frost icon will toggle ON/OFF each time ✓ is pressed ............................................. ✓
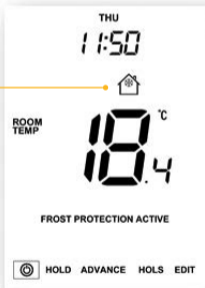
In this mode, the edge-e will display the frost icon and will only turn the heating 'ON' should the room temperature drop below the set frost temperature. If the heating is turned 'ON' whilst in frost mode, the flame symbol will be displayed.

To cancel the frost protect mode, navigate to the 'Power Icon' again, then press ✓ ......... ✓

Frost Protection Symbol ————————

# 🔒 Locking the edge-e

The edge-e has a keypad lock facility. To activate the lock follow these steps.

- Use the 'Left/Right' keys to scroll to Hold & press ✓ for 7 seconds .......... **< > ✓**

  The display will show 0000. At this point enter a four digit pin number.

- Use the 'Up/Down' keys to enter values .............................................................. **Λ V**

- Use the 'Left/Right' keys to move between digits ........................................... **< >**

- Press ✓ to confirm ........................................................................................................ **✓**

The display will return to the main screen and display the keypad lock indicator ... 🔒

*Note: The keypad lock indicator is only displayed when the lock is active.*

# 🔒 Unlocking the edge-e

- To unlock the edge-e press ✓ once............................................................................. **✓**

  The display will show 0000. At this point enter the four digit pin number you set previously.

- Use the 'Up/Down' keys to enter values .............................................................. **Λ V**

- Use the 'Left/Right' keys to move between digits ........................................... **< >**

- Press ✓ to confirm ........................................................................................................ **✓**

The display will unlock and return to the main screen.

# ✈ Holiday

In time clock mode; the timed output will be turned off during the holiday period, then return to the programmed settings once the holiday period finishes.

In thermostat mode; the holiday function reduces the set temperature in your home to the frost mode temperature setting that is configured in the setup menu.

The edge-e will maintain this temperature for the duration of the holiday and will then automatically return to the program mode on your return.

**To set a 'Holiday'**

- Use the 'Left/Right' keys to highlight 'HOLS' then press ✓ ............................. **< > ✓**
- Enter the return time (hours) by using the 'Up/Down' keys then press ✓ to confirm ..................................................................................... **∧ ∨ ✓**
- Enter the return time (minutes) by using the 'Up/Down' keys then press ✓ to confirm ..................................................................................... **∧ ∨ ✓**
- Repeat these steps to set 'Day', 'Month' & 'Year' .................................................. **∧ ∨ ✓**

    The display will now show ✈ and indicate 'Frost Protection Active'

    To view or change the 'Set' frost temperature while in 'Holiday' mode, press the 'Up/Down' keys followed by ✓ to confirm ........................................ **∧ ∨ ✓**

# Optional Settings Explained

**THE FOLLOWING SETTINGS ARE OPTIONAL AND IN MOST CASES NEED NOT BE ADJUSTED.**

**Viewing Accessories:** Current status of each accessory, remote sensors and window switches.

**Pairing Accessories:** to a wireless room sensor or window switch.

**Temperature Format:** This function allows you to select between °C and °F.

**Switching Differential:** This function allows you to increase the switching differential of the thermostat. The default is 1°C which means that with a set temperature of 20°C, the thermostat will switch the heating on at 19°C and off at 20°C. With a 2°C differential, the heating will switch on at 18°C and off at 20°C.
Condition: Whilst "Optimum Start" is in effect the 'Switching Differential' shall default to 1ºC/F

**Output Delay:** To prevent rapid switching, an output delay can be entered. This can be set from 00 - 15 minutes. The default is 00 which means there is no delay.
Condition: Output delay will not be in effect while 'Optimum Start' is running.

**Temperature Up/Down Limit:** This function allows you to limit the use of the up and down keys. This limit is also applicable when the thermostat is locked and so allows limited control of the heating system.

**Sensor Selection:** On this thermostat, you can select which sensor should be used. You can select between air temperature only, floor temperature, or both. When you enable both sensors, the floor sensor is used as a floor limiting sensor and is designed to prevent the floor from overheating.

**Floor Temp Limit:** When the Floor Sensor has been enabled in feature 07, you can set a floor limiting temperature between 20-45°C, this protects the floor from overheating. (27°C is the default).
*Note: 'Air Sensor Only' MUST NOT be used to control electric underfloor heating.*
*Floor Sensor or Both should be used.*

**Optimum Start:** Optimum start will delay enabling of the heating system to the latest possible moment avoiding unnecessary heating and ensure the building has reached its desired temperature at the programmed time. The thermostat uses the rate of change information to calculate how long the heating needs to raise the building temperature 1°C.

**Rate of Change:** Number of minutes to raise the temperature by 1°C.
*Note: The user cannot change this feature and is for information only.*

**Programming Mode:** The following program modes are available;

- Non-Programmable – Basic up/down override temperature control.
- 5/2 Day Programming – 4 levels for the weekdays and 4 different levels for the weekend.
- 7 Day Programming – 4 levels for each day.
- 24 Hours – 4 levels over a 24 hour period.

**Daylight Saving Time (DST):** is where the thermostat sets the clocks forward one hour from 'Standard Time' during the summer months, and back again in autumn, in order to make better use of natural daylight.

**Communications ID:** To interface with building management systems using the standard Modbus protocol.

**Program Type:** You can select between 4 or 6 program/comfort levels.

## ⚙️ Optional Settings - Feature Table

| FEATURE | DESCRIPTION | SETTING |
|---|---|---|
| A | Viewing Accessory | Information only |
| P | Pairing Accessories | Commences countdown from 99 – 00 seconds. |
| 01 **Menu Entry Point** | Temperature Format | 00 = ℃, 01 = ℉ (00 = Default) |
| 02 | Switching Differential | 00 = 0.5℃, 01 = 1.0℃ (Default)   02 = 2.0℃, 03 = 3.0℃ |
| 03 | Output Delay | 00 - 15 Minutes (00 = Default) |
| 04 | Up/Down Temperature Limit | 00° - 10℃ (00° = Default) |
| 05 | Sensor Selection | 00 = Built in Sensor with optional Remote Air (Default)<br>01 = Remoter Air Only<br>02 = Floor Sensor Only<br>03 = Built in + Floor Sensor + optional Remote Air<br>04 = Remote Air & Floor Sensor Only |
| 06 | Floor Temperature Limit | 20℃ – 45℃ (28℃ Default) |
| 07 | Optimum Start | 00 = Disabled (Default)   01 = 1 Hour   02 = 2 Hours<br>03 = 3 Hours   04 = 4 Hours   05 = 5 Hours |
| 08 | Rate of Change | Information Only |
| 09 | Program Mode | 00 = 5/2   01 = 7 Day   02 = 24 Hour<br>03 = None programmable |
| 10 | (DST) Daylight Saving | 00 = Disabled (Default)   01 = Enabled |
| 11 | Communications ID (Modbus) | 01-32<br>00 = Disabled |
| 12 | Program Type | 00 = 4 Comfort Levels (Default)<br>01 = 6 Comfort Levels |

# 🔧 Adjusting the Optional Settings

- Use the 'Left/Right' arrow keys to highlight ⓞ then press and **hold** the ✓ button for 3 seconds ............................................................................ **< > ✓**

  *The display will go blank showing only ⓞ 'Setup' and 'Clock'*

- Press the 'Up' key followed by twice ✓ to access main feature menu ....... **∧ ✓ ✓**

Feature No. ⟶ *01*

*00* ⟵ Feature Setting

SET

SETUP

- Use the 'Up/Down' keys to scroll through features ............................................ **∧ ∨**
- Use the 'Left/Right' keys to change feature setting............................................ **< >**
- When all required changes have been made press ✓ to confirm settings and return to the blank display ........................................................................ **✓**
- Use the 'Down' key to select ⓞ then press ✓ **once** to power on ............... **∨ ✓**

# Re-calibrating the edge-e

This thermostat is factory set and need not re-calibrating under normal operation!
To calibrate, follow the step below.

- Use the 'Left/Right' keys to scroll to the Power Icon ................................... < > ⏻
- Press and hold ✓ to turn the display 'OFF' .......................................................... ✓
- Press and hold the ✓ and 'Down' keys together for 10 seconds ................... ✓ ∨

The current temperature will appear on the display.

- Use the 'Up/Down' keys to configure the new temperature value ............... ∧ ∨
- Press the ✓ key to confirm the change and the display will go blank ......... ✓
- Press the ✓ key once to turn the thermostat 'ON' ............................................ ✓

# Error Codes

The edge will display an error code if there is a fault with the temperature sensor, these error codes are explained below.

E0 = The internal sensor has developed a fault.
E1 = The remote FLOOR probe has not been connected.
The remote FLOOR probe has not been wired correctly.
The remote FLOOR probe is faulty.
E2 = The WIRELESS AIR SENSOR has not been paired correctly.
The WIRELESS AIR SENSOR has lost connection to the edge.
(check batteries).
The remote WIRELESS AIR SENSOR is faulty.

## Wiring Diagram - edge-e
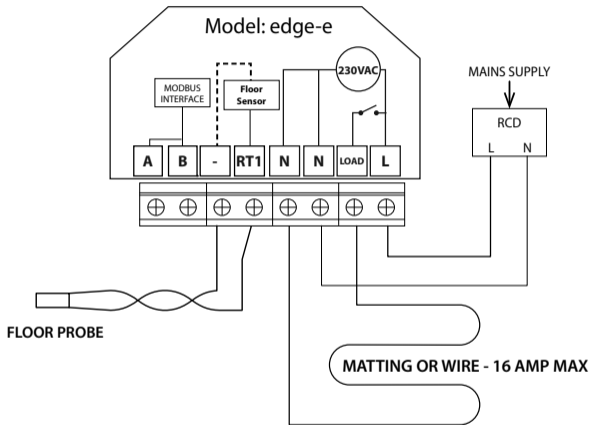


Model: edge-e

MODBUS INTERFACE

Floor Sensor

230VAC

MAINS SUPPLY

RCD

L | N

| A | B | - | RT1 | N | N | LOAD | L |

FLOOR PROBE

MATTING OR WIRE - 16 AMP MAX

This product must only be installed by a qualified electrician
and comply with local installation regulations.

## 2 Mode 2 - Time Clock

MON TUE WED THU FRI SAT SUN

4 — ADVANCED
5 — UNTIL
HOLD

**88:88**

DAY    MONTH

TIME
YEAR
LEFT — 11

1
2
3

✈

TIMER
ON OFF — 10

6 — SET

🔒 — 9

7 — 1    2    3    4    5    6    DONE

| ⏻ | HOLD | ADVANCE | HOLS | EDIT |

8

# 🔳 LCD Display
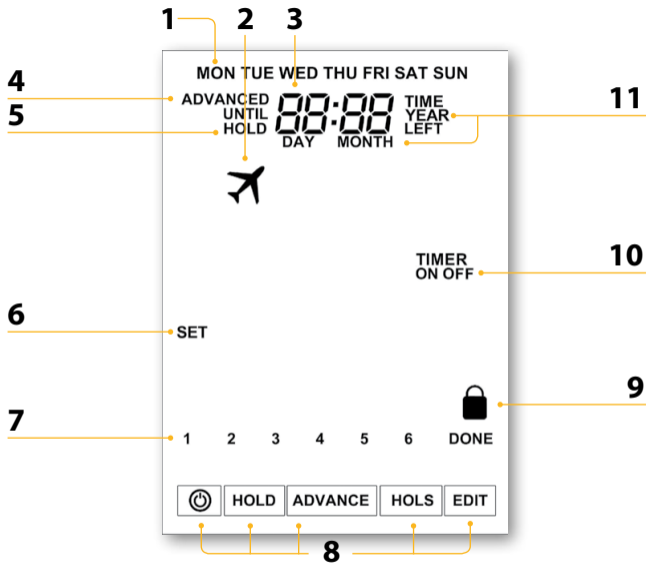
1. Day Indicator - Displays the day of the week.

2. Holiday – Displayed when the time clock is in holiday mode.

3. Clock - Time displayed in 24 hour format.

4. Advanced Until - Displayed when the edge is advanced to the next programmed level.

5. Hold Left - Displayed when a timer override is active, the remaining time will be shown.

6. Set - Indicates when changes are being made.

7. Program Indicator - Displayed during programming to show which period is being altered.

8. Main Menu – Highlighted display indicates selected option.

9. Keypad Lock Indicator – Displayed when the keypad is locked.

10. Timer Status – Displays the current status of the timed output.

11. Time/Day/Month/Year - Displays when setting the Clock/Calender or a Holiday Period.

# ⏲ Setting the Switching Times

To program the switching times, follow these steps.

- Use the 'Left/Right' keys to scroll to 'EDIT' .................................................... **< >**
- Press ✓ to confirm selection ................................................................................... **✓**
- Use the 'Up/Down' keys to select the day/period to program ......................... **∧ ∨**
- Press ✓ to confirm selection ................................................................................... **✓**
- Level '1' will now be highlighted and the 'ON' time will be displayed.
- Press ✓ to alter Level '1' ......................................................................................... **✓**
- To set the 'ON' time, use the 'Up/Down' keys to set the hours,
  followed by ✓, then use 'Up/Down' to set the minutes ................. **∧ ∨ ✓ ∧ ∨**
- Press ✓ to confirm ...................................................................................................... **✓**
- To set the 'OFF' time, use the 'Up/Down' keys to set the hours,
  followed by ✓, then use 'Up/Down' to set the minutes ................. **∧ ∨ ✓ ∧ ∨**
- Press ✓ to confirm the settings ............................................................................... **✓**
- Press the 'Right' arrow key ....................................................................................... **>**
- Level '2' will now be highlighted and the current settings will be displayed.
- Press ✓ to alter Level '2' settings .......................................................................... **✓**
- Repeat these steps to set all periods.
- To blank or set a switching level period to unused, first select the switching level then set --:-- in place of the time.
- When all switching times have been programmed use the 'Right' arrow key to highlight 'DONE' and press ✓ ................................................................ **> ✓**

# ▶▶ Timer Advance

To boost the timed output 'ON' follow these steps.

- Use the 'Left/Right' keys to highlight 'Advance' then press ✓ twice ........ **<>✓✓**
  Boost Left and the remaining time will now be displayed.

**To cancel 'Advance'**

- While 'ADVANCE' is highlighted
  press ✓ twice ........................... **✓✓**

Advance
Time Remaining

Output Status

Level
Advanced Until

# 🔵 Timer Override

To override the timed output 'ON/OFF', follow these steps.

- Use the 'Left/Right' keys to highlight 'HOLD' then press ✓ ............................ **<>✓**
- Use the 'Up/Down' keys to set the hours then press ✓ ..................................... **∧∨✓**
- Use the 'Up/Down' keys to set the minutes then press ✓ ................................. **∧∨✓**
- Use the 'Up/Down' keys to set output On or OFF then press ✓ to confirm..... **∧∨✓**

Hold Left and the remaining time will now be displayed.

**To cancel Timer Override**

- With 'HOLD' highlighted, press ✓ twice ..................................................................... **✓✓**

# ⚙️ Optional Settings Explained

**Programming Mode:** The following program modes are available;

**5/2 Day Programming** - 4 or 6 On/Off switching times for the weekdays and 4 On/Off switching times for the weekend.

**7 Day Programming** - 4 or 6 individual On/Off switching times for each day.

**24 Hours** - 4 or 6 On/Off switching times over a 24 hour period.

**Daylight Saving Time (DST):** is where the thermostat sets the clocks forward one hour from Standard Time during the summer months, and back again in autumn, in order to make better use of natural daylight.

**Communications ID:** To interface with building management systems using the standard Modbus protocol.

# ⚙️ Optional Settings - Feature Table

| FEATURE | SETTING |
|---|---|
| Program Mode | 00 = 5/2 (Default), 01 = 7 Day, 02 = 24 Hour |
| Daylight Saving Time (DST) | 00 = Disabled (Default) 01 = Enabled |
| Communications ID | 01-32 00 = Disabled) |

# Adjusting the Optional Settings

- Use the 'Left/Right' arrow keys to highlight ⏱ then press and **hold** the ✓ button for 3 seconds ............................................................................. **< > ✓**

  *The display will go blank showing only ⏱ 'Setup' and 'Clock'*

- Press the 'Up' key followed by twice ✓ to access main feature menu ....... **∧ ✓ ✓**

Feature No. ⟶ *01*

*00*

SET

SETUP

⟶ Feature Setting

- Use the 'Up/Down' keys to scroll through features ............................................ **∧ ∨**
- Use the 'Left/Right' keys to change feature setting............................................ **< >**
- When all required changes have been made press ✓ to confirm settings and return to the blank display ............................................................................. **✓**
- Use the 'Down' key to select ⏱ then press ✓**once** to power on ............... **∨ ✓**

# Wiring Diagram - Time Clock Mode
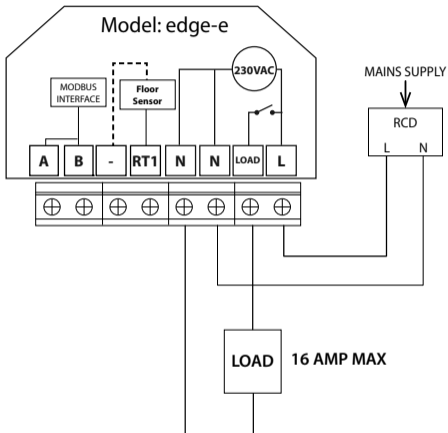
Model: edge-e

MODBUS INTERFACE

Floor Sensor

230VAC

MAINS SUPPLY

RCD

| A | B | - | RT1 | N | N | LOAD | L |

L    N

LOAD    16 AMP MAX

This product must only be installed by a qualified electrician and comply with local installation regulations.

# Replacing the Battery

In most cases the 3 volt lithium battery does not need replacing if the thermostat has a continual power supply. Its sole purpose is to ensure correct time keeping during a power loss to the thermostat.

To remove the battery use a small flat head screw driver or fingertip to push back the brass retaining bracket. This will automatically release the battery.

Insert the new battery **(positive side up!)** by locating one end underneath the **holding clips** then pushing down on the opposite end against the brass holding bracket.

Holding clips

Brass retaining bracket

We advise that replacement of the lithium battery be carried out by a qualified professional.

# Notes

# Notes

# heatmiser®

## Want More Information?

Call our support team on: +44 (0)1254 669090

Or view technical specifications directly on our website: www.heatmiser.com

**PDF**

**FAQ**

Follow us on: **twitter**

Find us on: **facebook**®

**Twitter:** @heatmiseruk

**Facebook:** facebook.com/thermostats

Rev. 1.0