

# **ENERGYMIZER T32 Mk2 THERMOSTAT**

## **TRADE INSTRUCTIONS - INSTALLATION PROCEDURE**

This appliance should only be fitted by a qualified electrician

Do mount the thermostat to suit your height requirements and regulations

Do read instructions fully

Do install the floor probe into a conduit so that it can be replaced if deemed faulty

Don't install near a direct heat source as this will affect the thermostat giving incorrect readings

Do not push hard on the LCD otherwise you may damage the liquid crystal display and this is not repairable or included in our warranty.

Do ensure that if the thermostat is not working that an electrician checks the wiring diagram carefully prior to returning the item.



Failure to do this may result in a handling charge being levied if thermostat is not faulty on return

## **Installation Instructions To Be Carried Out By A Qualified Electrician Only**

1. Installation of thermostat designed to be flush mounted using a box of 35mm deep which is sunk into the wall prior to installation of thermostat.
2. Carefully separate the front and back half of the thermostat from the back plate by placing a small flat head terminal driver into the slots on the bottom face of the thermostat, be careful not to damage the lugs.
3. Carefully un-plug the ribbon connector which is plugged into the front half of the thermostat. Remove the front somewhere safe. Terminate the thermostat as shown in the diagrams included in these instructions. Screw the thermostat back plate on to the back box.
4. Re-connect the thermostat ribbon cable and clip the two halves together
5. Turn on power to thermostat and allow the thermostat to stabilise for one hour before calibrating.



## **Understanding the features - Engineers Settings**



### **Menu 1:**



1. To access these settings the display should show **OFF**
2. Push the  button once and hold for 5 seconds until small **Menu 01** is displayed in top left hand side of thermostat.
3. Push  to set your thermostat in the correct mode for your requirements
4. Setting **A** = **Air only** – measures and regulates air temperature in its location (for Thermostat only)
5. Setting **AF** = **Air and Floor** – measures and regulates air temperature and floor temperature (for Thermostat and Floor sensor)
6. Setting **F** = **Floor Only** – measures and regulates floor temperature only (for Floor Sensor only)
7. Setting **AR** = **Air only with Remote Air Sensor** – measures and regulates the air temperature where the remote air sensor unit is located (for Thermostat with Remote Air Sensor Unit)



**Menu 2:** For switching differential is the number of degrees from where the thermostat is satisfied to the point of where it calls for heat again, depending on the set temperature and the room temperature.



The default is 1°C which means the thermostat will switch the heating off at 0.5°C above the set temperature and on at 0.5°C below. With a 2°C differential. The heating will switch on 1°C below the set temperature and will switch off 1°C above the set temperature.



To change settings from factory default, press the  or  with range 1°C to 5°C.

**Menu 3:** This calibrates the room temperature. This feature is used to compensate for the difference in displayed room temperature and a thermometer temperature reading. The default setting is set to 0°C press  or  arrow to select range -5°C to +5°C.



**Menu 4:** Calibrates the floor temperature. This feature is used to compensate for difference in displayed room temperature and a thermometer temperature, the default setting is set to 0°C press  or  arrow to select range -5°C to +5°C.

**Menu 5:** Pump protection for hydronic heating only. Hydronic heating installations require a pump to be activated at least every 15 seconds every 24 hours to avoid the pump seizing. Select ON to activate this feature (or OFF to deactivate). When the thermostat is activating the pump the icon will blink. Press  or  arrow for On or Off. Factory default is set to Off.



**Menu 6:** Optimum start pre heat. To ensure that the required temperature is reached when you get up in the morning or come home in the evening. Press  or  arrow to select On or Off. If feature is set to ON mode it will ensure that your desired temperature is reached at the point your thermostat programme time commences. Thermostat utilises historic data.



**Menu 7:** Set floor temperature limit, this feature protects the floor surface; default is at 40°C press  or  arrow to select between 20°C and 40°C.

**Menu 8:** Set Backlight On or off or default at 20 seconds. Press  or  arrow to choose On, Off or leave at 20 seconds, which is factory default.

**Menu 9:** Select Temperature format °C or °F press  or  arrow to select °C or °F

**Menu 10:** Feature to select 12 or 24 hour clock press  or  arrow to select 12 or 24 hour clock preference. Factory default is set at 24hr.

**Menu 11:** Frost protection mode to avoid room temperature dropping to below 5°C press  or  to select On or Off

**Menu 12:** The program type gives the user 3 options of program selection factory default is 7\_0 press  or  arrows to switch between 5\_2, 6\_1 or 7\_0

5\_2 will give you 5 days (Monday to Friday) with the same four events (wakeup, work, home, sleep) and 2 days (Saturday and Sunday) with the same four events

6\_1 will give you 6 days (Monday to Saturday) with the same four events (wakeup, work, home, sleep) and 1 day (Sunday) with the same four events.

7\_0 will give you individual settings for each day from Monday to Sunday

### To View Floor Temperature

Thermostat should be set in AF mode, press and hold the down button for 5 seconds, floor temperature will be displayed and after 5 seconds will revert back to displaying room temperature.

### Fault Finding and Error Messages

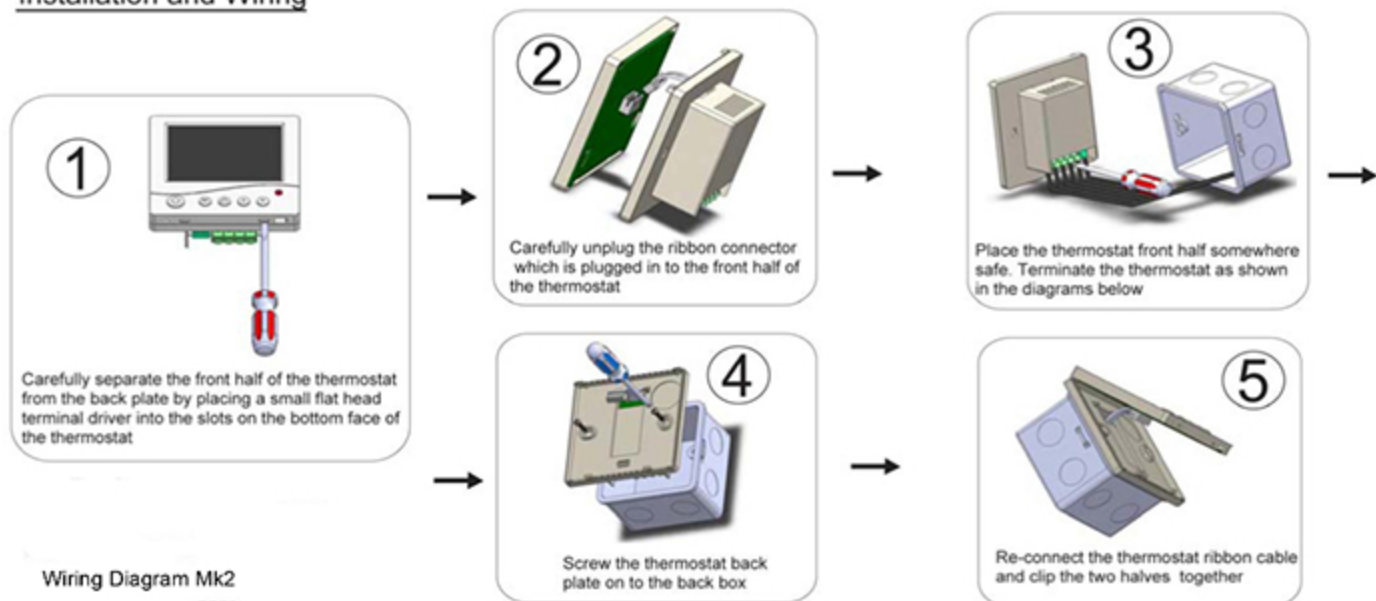
E0 = The internal sensor has developed a fault contact your supplier for assistance

E1 = Remote floor sensor not connected, wired incorrectly or faulty probe

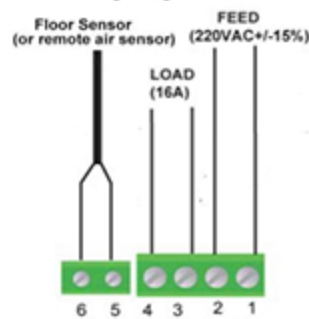
LO = The room or floor temperature is below 0°C

HI = The room or floor temperature is above 50°C

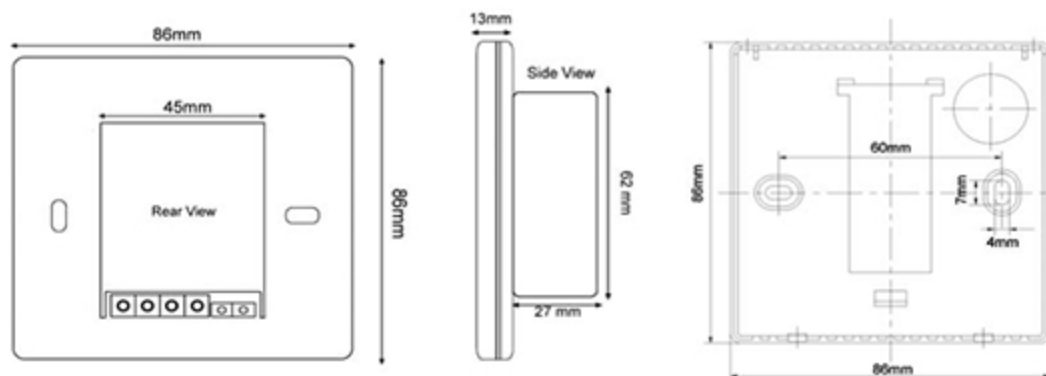
## Installation and Wiring



Wiring Diagram Mk2



Dimensions



This product should be installed by a qualified electrician.