

## **Colour Touch Screen Heating Thermostat HIQ 425**

- This Thermostat is a colour touch screen unit and is designed for electric or hydronic underfloor heating systems, as well as radiant heating.
- Using a 4.3inch colour touch LCD display, the working status can be easily viewed. With built-in four languages, you can select the language you want to display.
- The thermostat has five modes, and in each mode the system can work according to your desired pre-set temperature.
- Simple heat regulation sends On/Off commands to the heating system according to pre-selected temperatures. The thermostat control algorithm includes an anticipation function which reduces the discrepancy between the thermostat reading and the temperature at the centre of the room.
- Choose from three sensor settings: Ambient (built-in sensor)- to control the air temperature; Floor - to control the temperature using the floor probe; Ambient and Floor - to control the ambient air, and show floor temperature by using the floor probe.

### **Product Features**

- 4.3inch TFT Color Touch Screen Operation
- Electric Heating System( Max.16A)
- Adjustable Comfort Mode, Economy Mode, Party Mode, Holiday Mode and Program Mode Control
- 5+1+1 Days Programmable
- External and Internal Sensor Select
- Four languages select: English, French, Germany, Dutch
- Three Color selectable: White, Black, Silver
- Clock and Date Display
- Temp. Clibration
- Temp. Protection
- 86\*86mm mounting

### **Technical Data**

- Voltage: 240Vac 50/60Hz
- Load Current: 16A(Max)
- Temp. Setting Range: 5~35°C
- Ambient: 0~50°C
- Sensor: NTC10K, 3950ohms at 25°C
- Accuracy:  $\pm 0.5^{\circ}\text{C}$
- Protection Class: IP30

# Display Overview



1	ON/OFF	Unit ON/OFF button, when unit shows OFF pressing the button turn it OFF.
2	Mode button	This button changes the heating mode between Comfort, Economy etc.
3	Menu button	This button allows access to sub menu settings eg prog schedule, language etc.
4	Down	Decrease temperature or change other parameter.
5	Up	Increase temperature or change other parameter.
6	External Temp	Displays external or floor temperature if probe is placed in a floor slab.
7	Room Temp	Actual room temperature display/
8	Set Temp	Required set temperature for heating to maintain. Range 5-35 degC.
9	Room Temp Icon	Room temperature icon.
10	Heating Mode	Show current heating mode selected.
11	Clock	Shows current time (updates from phone App).
12	Day Icon	Shows current day of the week.
13	Heating Icon	Shows if heat source is heating the system.
14	Mode Icon	Shows current working mode.

Display when Menu button pressed.



15	Date & Time button	Use to set Weekday and Time
16	Heating Schedule button	Used to check and adjust heating schedule programme.
17	Temp mode preset button	Change preset working mode temperatures.
18	Language button	Use to select different language.
19	Temp protection	Use to set upper and lower temperature limit.

Display when Mode button pressed.



20	Comfort mode button	Once selected, Thermostat will operate at Comfort pre-set temperature.
21	Economy mode button	Once selected, Thermostat will operate at Economy pre-set temperature.
22	Party mode button	Once selected, Thermostat will operate at Party pre-set temperature.
23	Holiday mode button	Once selected, Thermostat will operate at Holiday pre-set temperature.
24	Programme mode button	Once selected, Thermostat will operate at Programme pre-set temperature.

## Set Date and Time

1. Press 'Date & Time' button (15).
2. You will now see the screen on the right. You are now able to adjust the Day, Hour, Min.
3. Once you have finished press Apply to save.



## Check and adjust your heating schedule

1. Press 'Heating Schedule Button' (16).
2. You will now see the screen on the right. You can now select one of three columns to edit.
3. For example if you select the Sunday column, the screen below will be displayed, so that you can edit it.



You are now able to edit each one of the 3 ON/OFF time periods, to switch your heating on and off. Once you have finished press Apply. Although we say OFF period, if this temperature is left to high, the heating will still come on if the temperature drops.

## Temperature Mode Pre-set

1. Press the 'Temp mode preset button' (17). You will now see the screen to the right.
2. Its now possible to change to each mode setting and adjust the preset temperature for each of the 5 modes.
3. After setting each one to your desired temperature, press Apply to save your settings.



## High & Low Protection Settings

1. Press the 'Temp protection' button (19). You will now see the screen to the right.
2. You are now able to see the current settings and also adjust your set points.
3. After setting the upper and lower limits, press Apply to save your settings.



Notes on protection settings-:

**High Protection** uses external sensor probe for floor temp. When floor temp exceeds set high protection temp, the system will be shut off automatically.

**Low Protection** functions only when thermostat is in OFF mode. It uses internal sensor to detect the room temp. When room temp goes below set Low protection temp, the system will be turned on automatically until the minimum temperature is reached.

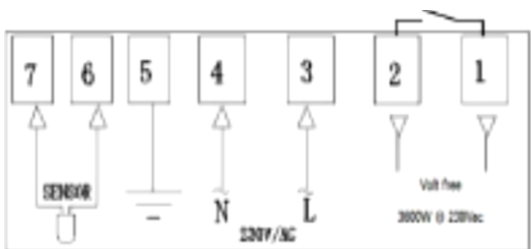
## Language Selection

1. Press the 'language selection' button (18). You will now see the screen to the right.
2. You are now able to select the language you require, then press Apply to save your settings.



# Advanced settings and installer information

Page	Description	Range
1	Temp Offset	-8 °C ~8°C
1	Dead Zone	0°C ~3°C
1	Set Point Max	5 °C ~35°C
1	Set Point Min	5 °C ~35°C
2	NTC Select(Internal, External)	I only, E only, I & E, I or E
3	Low Protection Max.	5 °C ~10°C
3	Low Protection Min.	5 °C ~10°C
3	High Protection Max.	5 °C ~90°C
3	High Protection Min.	5 °C ~90°C
4	Backlight off Time after Operation.	3s~180s
4	Min Backlight Brightness of Standby Status	1%~100%
4	Max Backlight Brightness of Standby Status	1%~100%
4	Turn backlight ON/OFF	ON/OFF
5	Relay Delay Time	0s~250s
5	Relay Output	Normal(NO); Inverted(NC)
6	Restore to factory default	<< or >>



Please note that on the back of the unit itself it depicts a Neutral and a load on the volt free relay contacts, this is for illustration only. Terminal 1 and 2 can be used as volt free relay contacts. Max 16A @ 240vac.

