iCon
cc200HV3 (7") Touch Screen
User Manual
Ver 19.1.172

ComeraghControls
Intelligent Control Systems

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Intelligent Control Systems

5. **Holiday**
   - How do I set the holiday setting
6. **Whole House Master Setting**
   1. Can I switch the whole house to different setting
7. **Quick View**
   - Can I look at all room temperatures together
8. **Historical Log**
   - Where can I view heating energy use for each room
9. **User Manuals**
   - Where can I find the User Manuals
10. **Master Clock**
    - How can I adjust the Master Clock
11. **Room Names**
    - How can I edit the Room Names
12. **Engineering Assess**
    - What is Engineering Assess
13. **Exit**
    - How do I get back to the home screen

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1. Temperature

1. How do I adjust the temperature **at Sensor**

Press + & – buttons to adjust the room SP (Set Point)

SP 25°c

21°C

SB

Room Temp

Comment:
Set Point is the desired temperature of the room, when the room is scheduled to be on.

○ + ← Warmer

○

○ - ← Cooler

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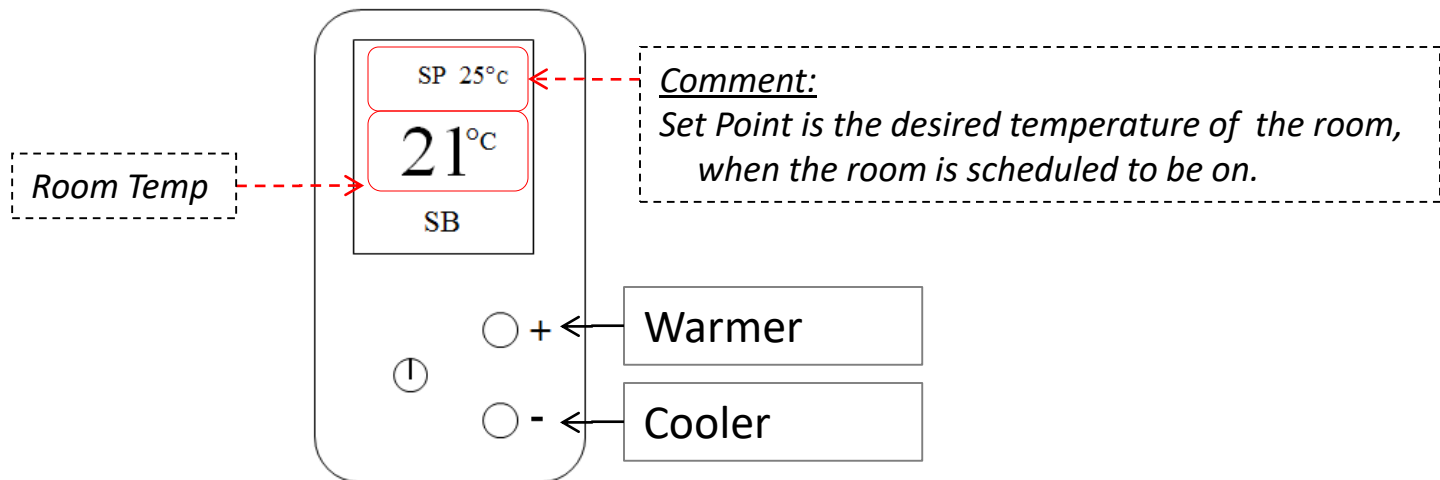
1. Temperature

2. How do I adjust the temperature **at console**

1. Press – Zone Settings
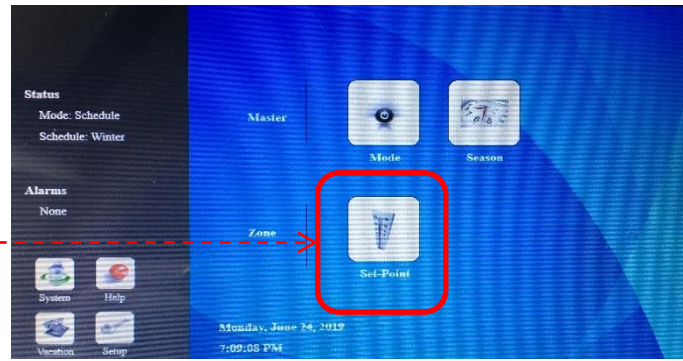
2. Use ⬆️⬇️ arrows to find which room you require

Group View:

1. Press – System

2. Press – Zone
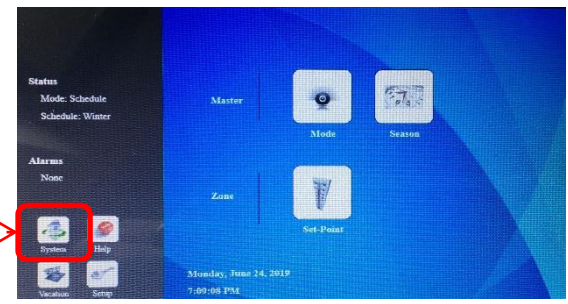
1, Temperature

2. How do I adjust the temperature **at Console**

Use ⬆⬇ to adjust the room
Set Point

Comment:
*Set Point is the desired temperature, when the
room is scheduled to be on.*

Comment:
Actual room temperature

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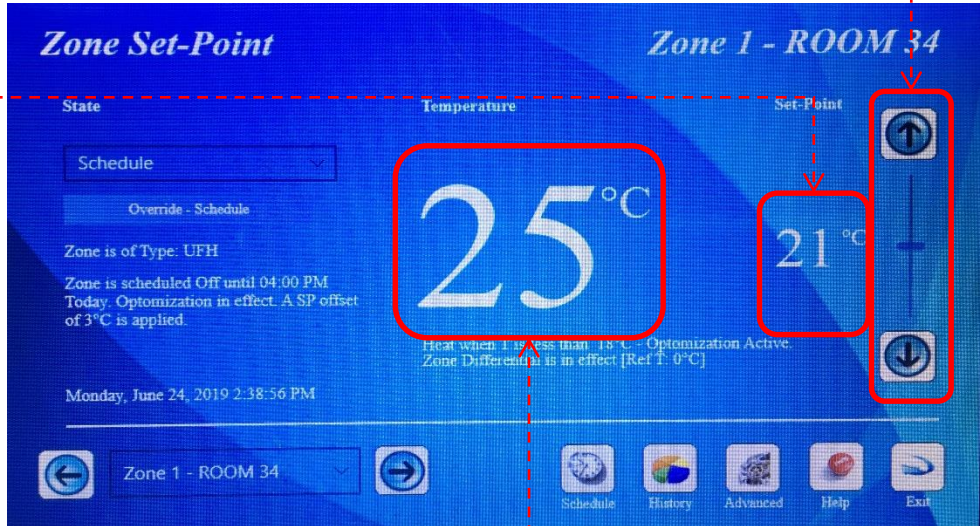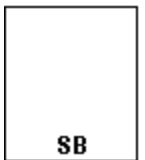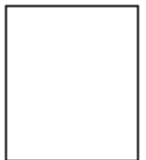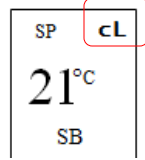
1. Temperature

3. How do I use the buttons on the sensor

Press + & – buttons to adjust the room SP (Set Point)

Room Temp

SP 25°c

21°C

SB

Comment:
Set Point is the desired temperature,
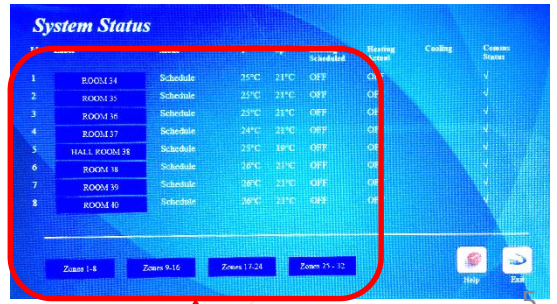_when the room is scheduled to be on._

Warmer

Cooler

Comment: Mode Button

Zones Status

Timer :	Stop:	Disable	Cooling
SP 25°c 21°C	SB		SP cL 21°C SB
Room follows _Timer schedule_	_Room Ignores schedule_ _Stay in Set Back_	_Room Ignores schedule_ _Stay in Frost Protection_	_Cooling Enabled_ **_Only displayed when_** **_cooling setup in building_**

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1. Temperature

4.1 Sensor Symbols

SP 25°C

21°C

SB

+

−
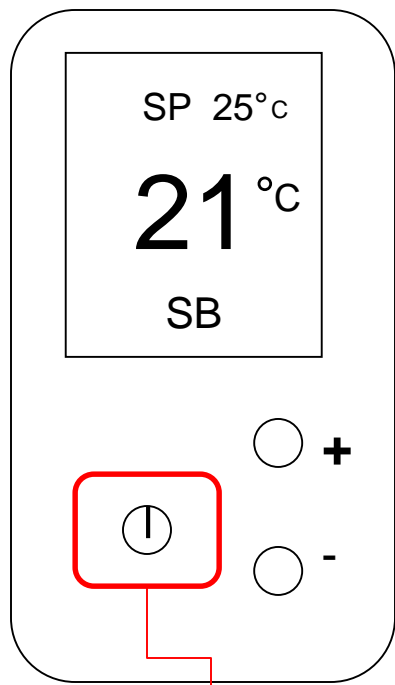
Use mode Button to select setting

Sc	Sb		cL
Schedule Heating	Stop Set Back Indefinitely	Disable Frost Protect Indefinitely	Cooling Scheduled Heating Cooling Enabled

td	1H	2H	3H
OF	On	On	On
OFF for Today	ON For 1 Hr	ON For 2 Hr	ON For 3 Hr

−5	16 E F r t	01 ZN
Cannot read Probe	*Ref Only*	Lost Comms

E

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1. Temperature

4.2 Sensor Symbols Explained

SP 25°c

21°c
∫∫∫

BH SB ZN

(+)

(-)

Home Owner (Normal Mode)
SP = Set Point
C1= Curve 1 optimisation
C2= Curve 2 optimisation
C3= Curve 3 optimisation
CA= Auto optimisation
Et = External Temp Stat , F1 = Flow Temp Sensor
R1 = Return Sensor , t1=Temperature Sensor
Cl= (Static) Cooling Mode, (Flashing) Calling for Cooling

Air or Probe Temperature

∫∫∫   = Heating On

Home Owner Mode
Running Mode (Grey Background)
SB = Set Back Mode – Ignore Schedule
Blank = Frost Protection Mode
Edit Mode (Blue Background)
BH = Boost Heat
ZN = Zone Number – Can not be change by Home owner

Note:
Although cooling can be enabled, it will only operate where there is a cooling system/device installed

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1. Temperature

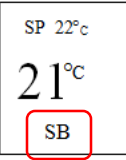### 5. What does Set Back temperature mean

Set Back is the temperature the room will not fall below when room is OFF.

Comment:

Time OFF :

SP 22°c

21°c

SB

Room OFF
SB (Set Back) Displayed at bottom on
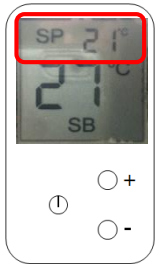Room Only heat if room temp fall below SB

Time ON :

SP   25°c

21° C

Room ON
SB (Set Back) REMOVED
Room heats to the SP (Set Point) Temp

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1. Temperature

5. Temporary & Scheduled Temperature Setting

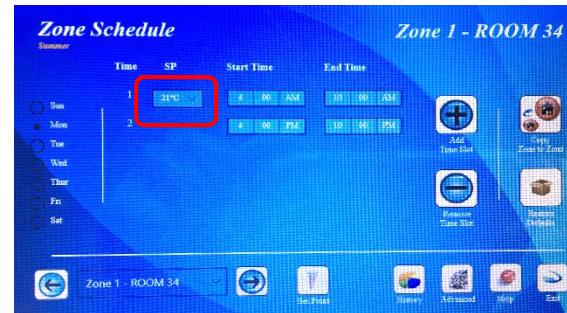**Temporary - Temperature Setting**

At Sensor

*At Console
Set Pont Screen*

Scheduled - Temperature Setting

*At Console
Schedule Screen*

Comment:

Temporary Temperature Setting only remain until the next scheduled timed ON/OFF heating event.

i.e. If you adjust the SP (Set-Point) up to 28°C, at the next scheduled ON / OFF, the system will automatically reverts back to the scheduled SP e.g. 21°C. This ensures the running cost are kept low .

***When does the system switch to Schedule***

❖ *At the next Scheduled Change Over*

❖ *If the user adjust a setting in the Scheduled Screen*

❖ *If the master Time / Date setting for the console is adjusted*

Note:

If the system is not adjusted, the system will always use the next schedule on time SP as it's reference.

This ensure the reheat time are kept constant.

2. Scheduling

1. How do I schedule a room to heat
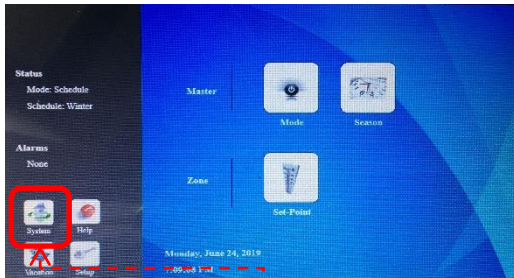
1. Press – System

2. Press Zone Number

3. Use Schedule icon

5. Select Start & Stop Time
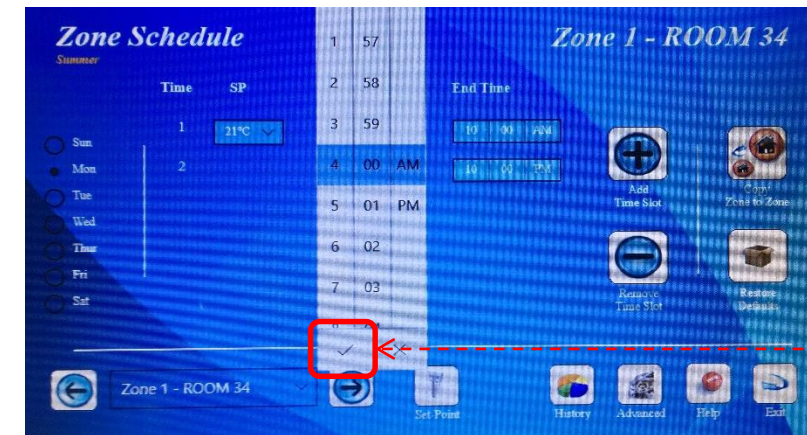
6. Select required time and Press √

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2. Scheduling

2. How can I can I add different times to a room schedule

Use the Button highlighted
to Add or Remove Times

Maximum 5 Time Slots

2. Scheduling

3. Can I have a different schedule for different days of the week.

1. *Select the box beside the day required and enter the new schedule for this day*

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2. Scheduling

4. Is there a quick default schedule setting I can use

1. By pressing these buttons, factory default Time & Temperature settings will be assigned to this room or all rooms

2. Select required days and if required apply to other zones
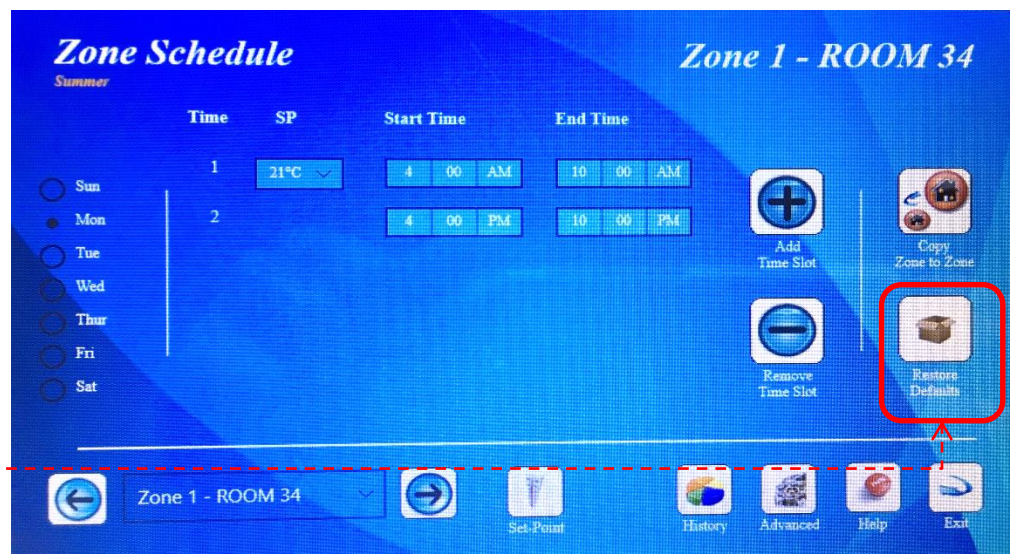
ComeraghControls
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2. Scheduling

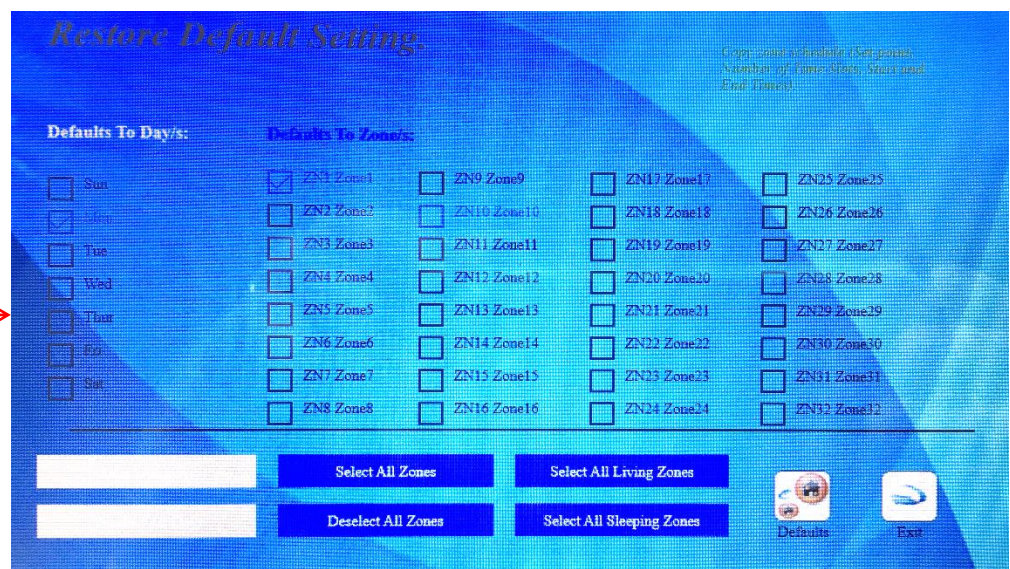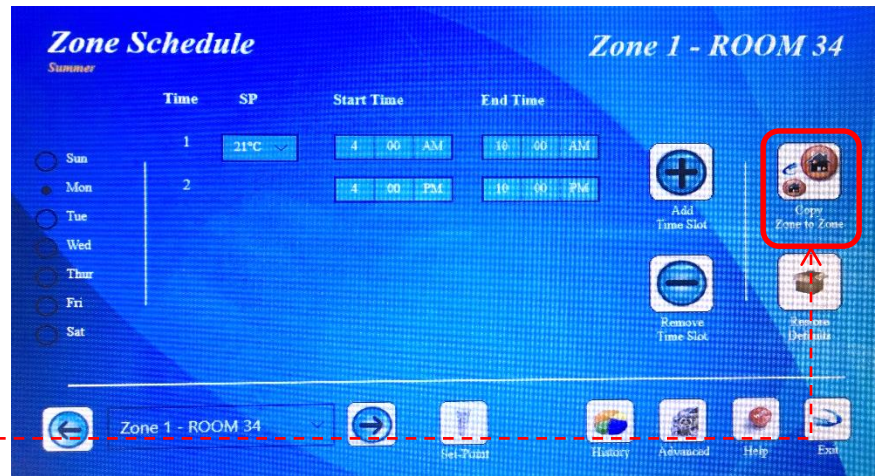### 4. Can I copy a room schedule into another room

1. By pressing these buttons, you can copy today's room schedule into other day of the week or all days of the week.

2. Select required days and if required apply to other zones

Comment:

If All Zone Check Box is select, the following will apply
- DHW (Domestic Hot Water) → DHW Type Zone
- Sch (Schedule Only) → Sch Type Zone
- Any Heating Zone (UFH, Uprobe, Rad) → Will copy to Heating All Type Zone
- Probe Zone (Special Zone Temp Range up to 99°C) → Will copy to ONLY Probe Zones

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2. Scheduling

6. Can I copy today's room schedule into other day of the week

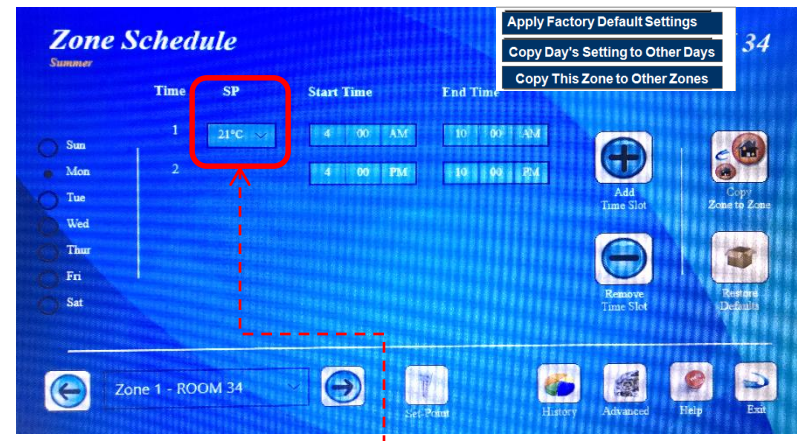1. By pressing these buttons, you can copy a room schedule into another room

2. Select required days and if required apply to other zones

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2. Scheduling

## 7. Temporary & Schedule SP

Temporary SP
(Zone Set Point Screen)
Any adjustment to the SP on this scree will only remain until the next scheduled ON/OFF event

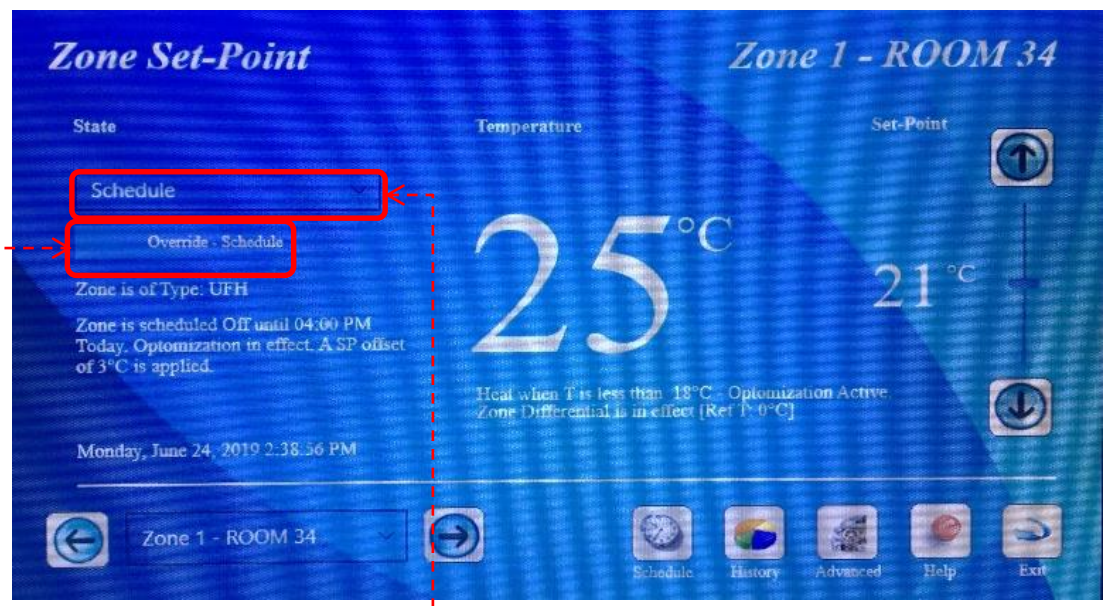**Scheduled SP**
(Zone Schedule Screen)
Default SP

Note:
If you make any adjustment on this screen, the Temporary SP will atomically be updated, with the scheduled SP

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3. Advanced Room Settings

1. Can I switch a room to a different state without adjusting all my schedules
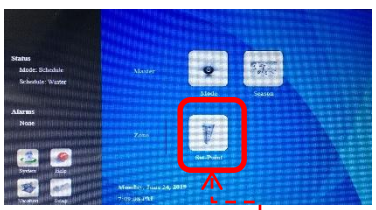
1. Press – Zone Settings

Override

Override the current ON/OFF state to Off/ON until the next scheduled event

State Button

Underfloor Heating

Normal:	Zone follows the programmed schedule
Stop:	Zone Schedule is suspended
	The desired temperature is SP-SB
	The Sp for DHW zones is Off
Disable:	Zone schedule is suspended
	Zone is placed in frost protection mode

Radiators & Hot Water Heating & Sch

Off Today:	Off For Today
On 1 Hr:	On for 1 Hour
On 2 Hr :	On for 2 Hour
On 3 Hr :	On for 13Hour

Cool & Sch Heat
Enable Cooling & schedule Heating
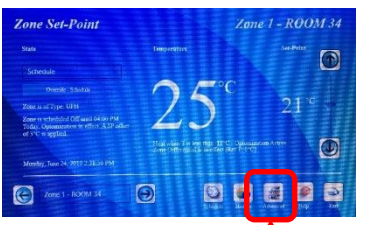*Note: Only active if cooling installed.*

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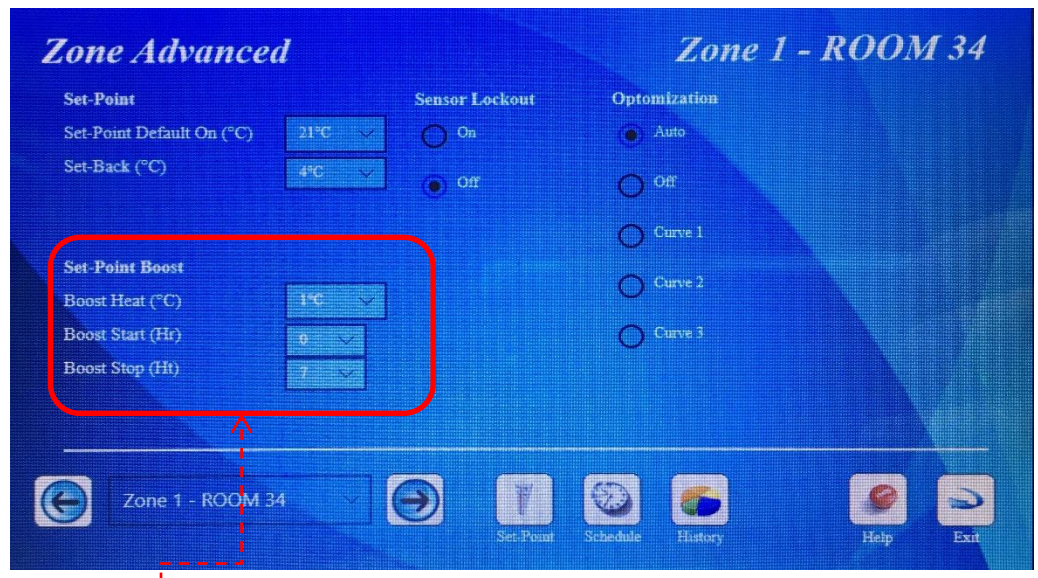
3. Advanced Room Settings

2. Can I schedule a room to a boost temperature to take advantage of low cost energy
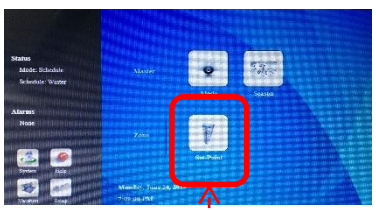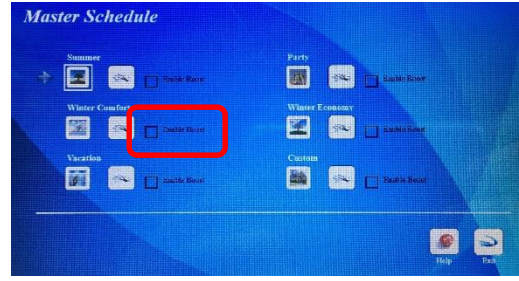

1. Press – Zone Settings

2. Press – Zone Advanced

Boost
When a room is scheduled to Boost, the desired temperature = SP (Set Point) + BH (Boost Heat)

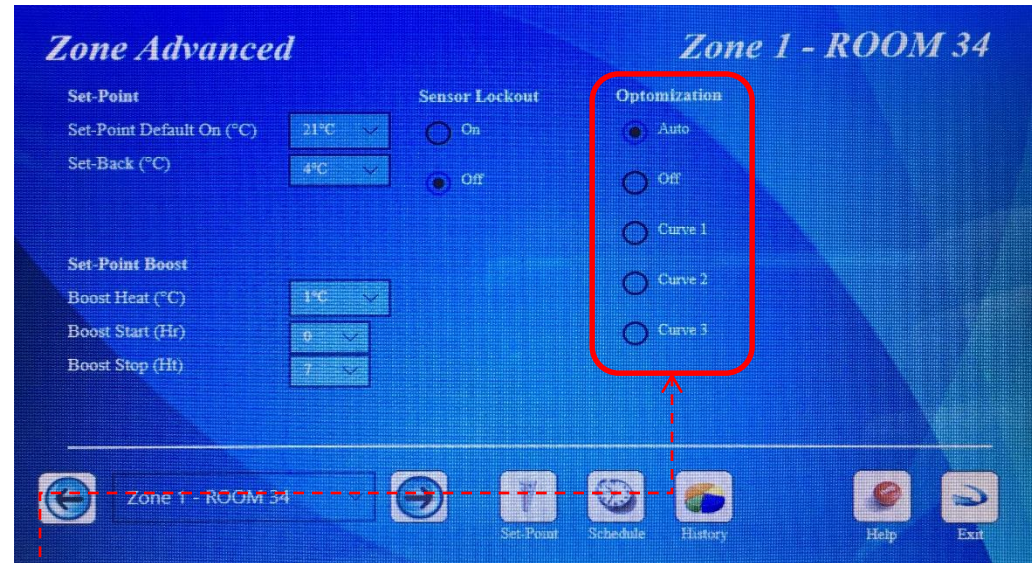**Note:** Boost must be enable in Master Schedule

3. Advanced Room Settings

3. Can I set the room to switch on early so it's at a desired temperature at a set time

Optimisation

This is a mechanism of ensuring zone temperatures are achieved according to the programmed schedule.

Optimisation

Normal: No optimisation - Follows the timed schedule for the Zone

CRV 1:   Preheats Zone **1 Hr** prior to the scheduled ON time
         [c1 displayed on sensor when overriding ON time]

CRV 2   Preheats Zone **2 Hr** prior to the scheduled ON time
         [c2 displayed on sensor when overriding ON time]

CRV 3   Preheats Zone **3 Hr** prior to the scheduled ON time
         [c3 displayed on sensor when overriding ON time]

AUTO   This setting will self-learn the thermal inertia of the room
          and adjust the start time from memory
          [cA displayed on sensor when overriding ON time]

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3. Advanced Room Settings

3. Can I set the room to switch on early so it's at a desired temperature at a set time

Curve 1		Curve 2		Curve 3	
Time Offset (mins)	Temp Offset (Deg C)	Time Offset (mins)	Temp Offset (Deg C)	Time Offset (mins)	Temp Offset (Deg C)
30	1.0	30	1.0	30	1.0
60	2.0	60	2.0	60	2.0
		90	3.0	90	3.0
		120	4.0	120	4.0
				150	5.0
				180	6.0

Optimization is the control of zone temperature in order to pre-heat according to a selected optimization curve when the zone is in the Timer mode (not Setback or Disable).

An optimization curve controls temperature gradient prior to the scheduled ON time. Curves differ with respect to duration.
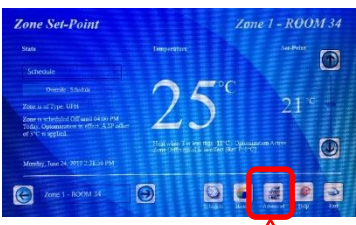
Curve Auto Limits
Max 3 Hr
Min .5 Hr

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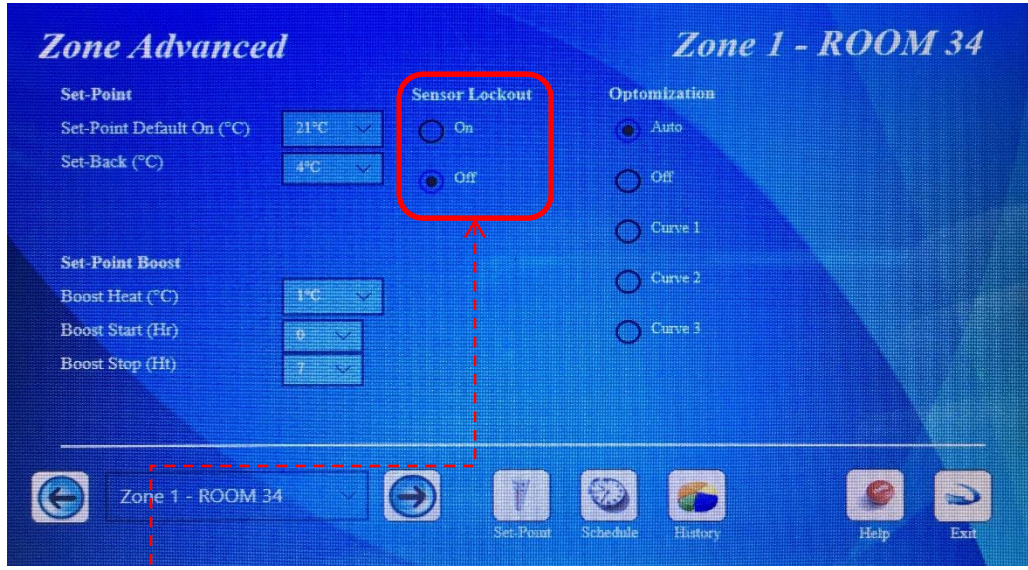
3. Advanced Room Settings

4. Can I Lock Out the Buttons on my sensors
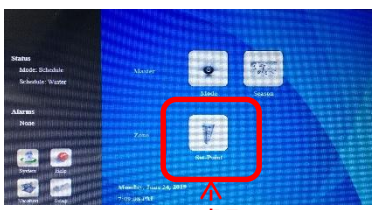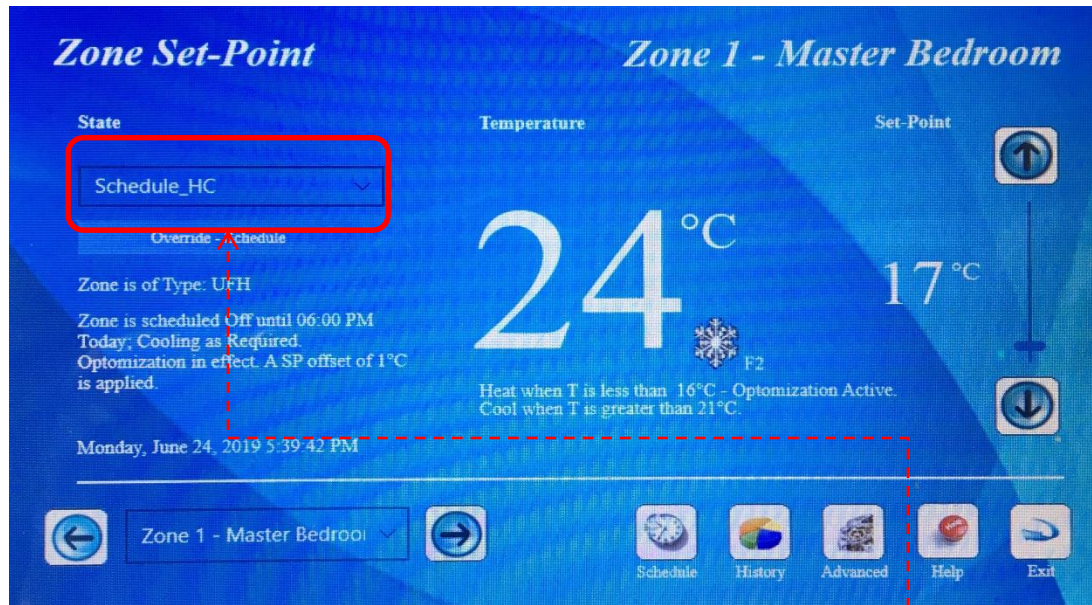

1. Press – Zone Settings

2. Press – Zone Advanced

Room Sensor Button Lock Out:
Each individual room sensor buttons can be set to Lock Out, to ensure the occupant cannot change the settings

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3. Advanced Room Settings

4. Cooling

Enabling Cooling:
Press the Stats Button Until "Schedule_HC" is displayed
Cooling is now enabled.)

Comment:
Cooling will activate if the room temp is above the Set Point +Deadband
Example Set Point +Deadband (21+3=24) Cool when room temp (T) is greater than 24°C

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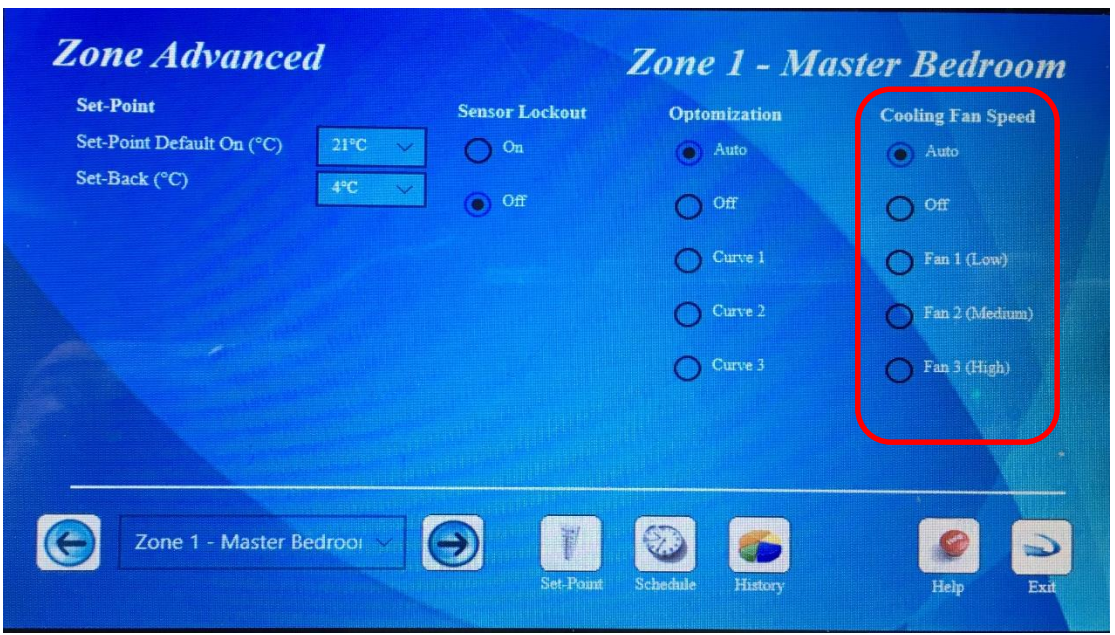Intelligent Control Systems

3. Advanced Room Settings

6. Fan Speed (Stop Auto- Set Manually)
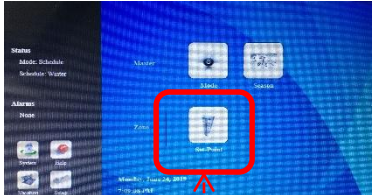
Step 1. Zone Settings
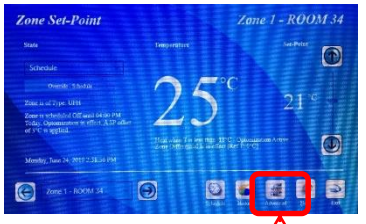
Step 2.– Advance Settings

Step 3.– **Select the Fan Speed to be continuously used irrespective of the air temperature**
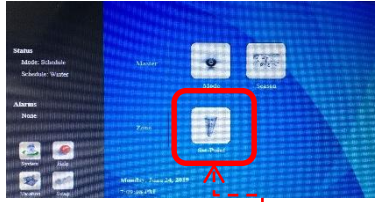
Off: No Fan Speed
Auto: Automatically adjust Fan Speed based on room temp
F1:   Fan Speed 1 (Low)
F2:   Fan Speed 2 (Mid)
F3:   Fan Speed 1 (High)

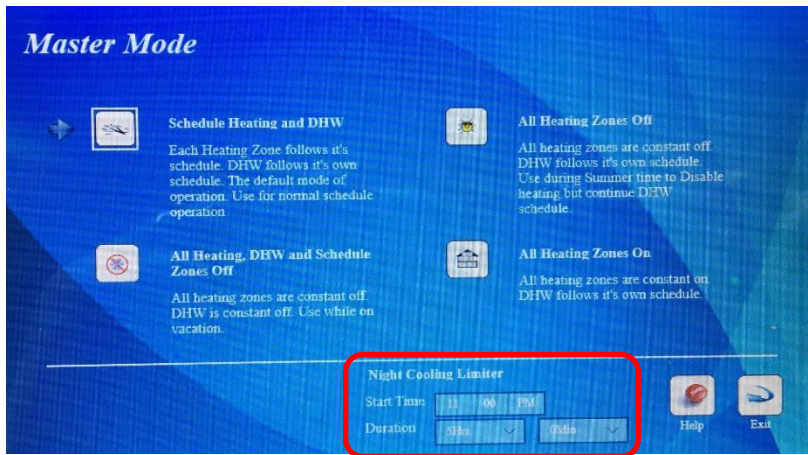**Comment**
This only applied to building with FCU & VRF Unit

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3. Advanced Room Settings

7. How can I set a Night Time Cooling Max Limiter Schedule

Step 1. Master Mode

Step 3. Zone Settings
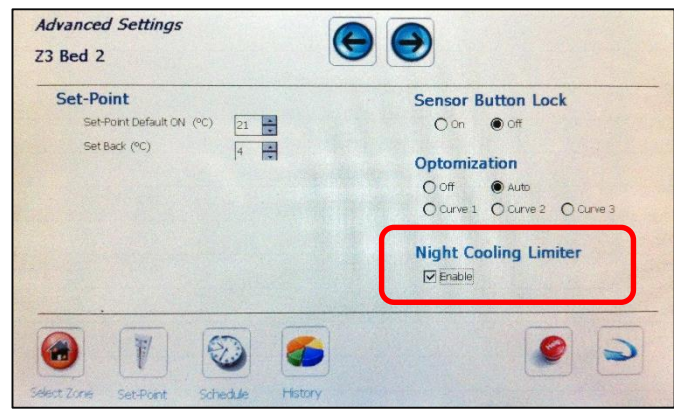

Step 2. Set Cooling Max Schedule
- Start Time
- Duration in Hr.

Cooling Maximum is applied during the period defined by the Start time and Duration.
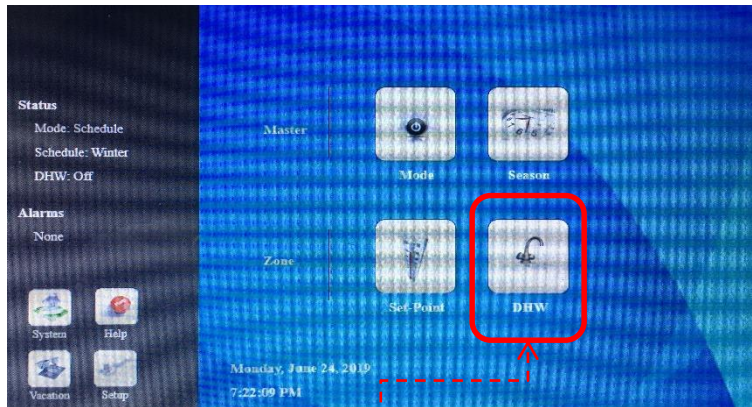
Press Home (Return Key)

Step 4.– Advance Settings

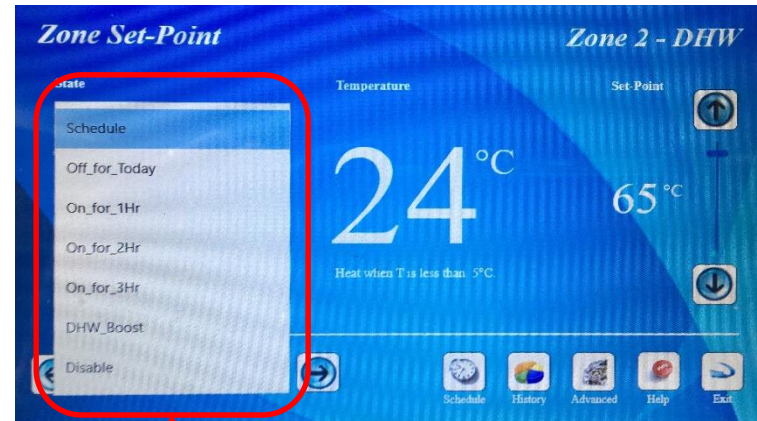Step 5.– **Enable individual Zones Night Time Cooling Limiter**

Comment

This only applied to building with FCU (Fan Coiler Units controlled via 0-10v outputs

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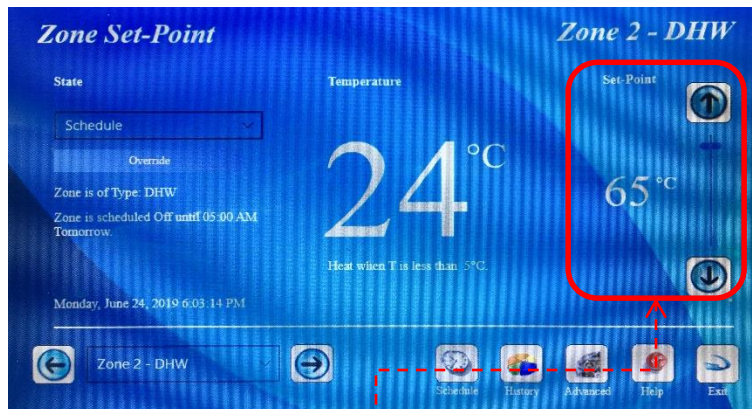Intelligent Control Systems

4. Hot Water

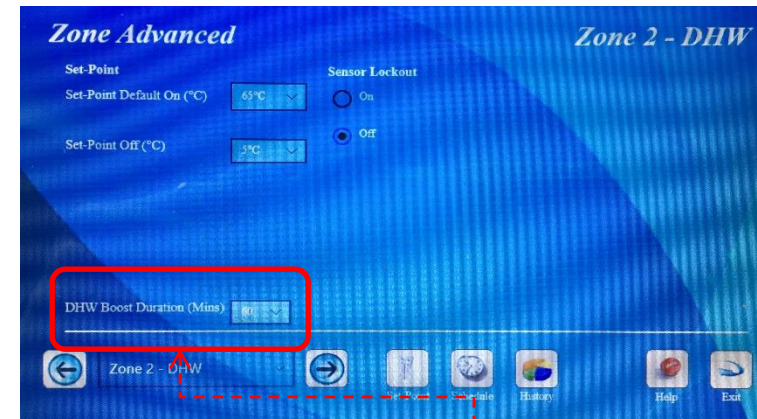1. Can I adjust the temp of my hot water

Step 1. Press – Domestic Hot Water

Step 3. DHW State Options

Step 2. Use ⬆️⬇️ keys to adjust temp

Step 4. In Advanced - Adjust Boost Duration

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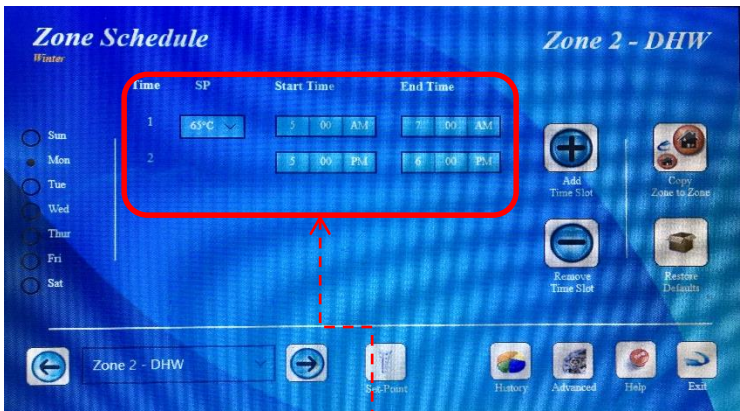
4. Hot Water

2. Can I adjust the schedule of my hot water
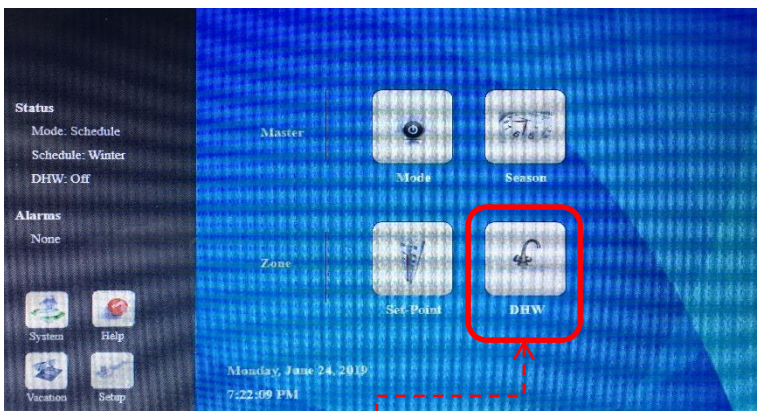
Step 1. Press – Domestic Hot Water

Step 2. Press – Schedule

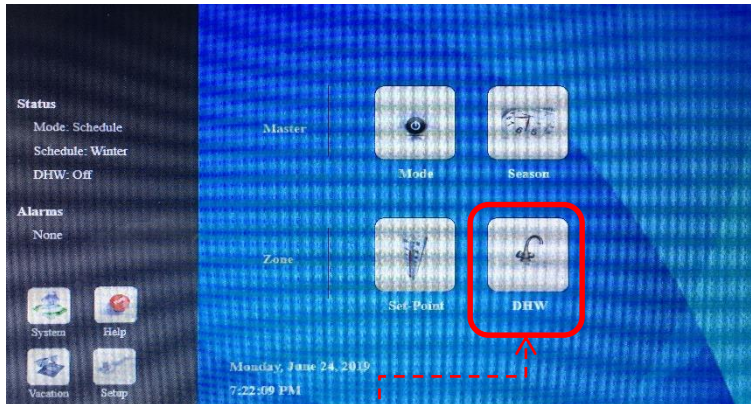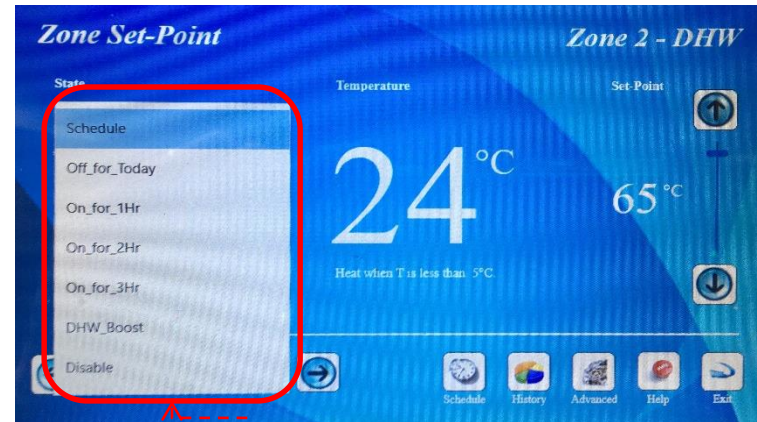Step 3. Use ⬆️⬇️ keys to schedule

Step 4. Select days

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4. Hot Water

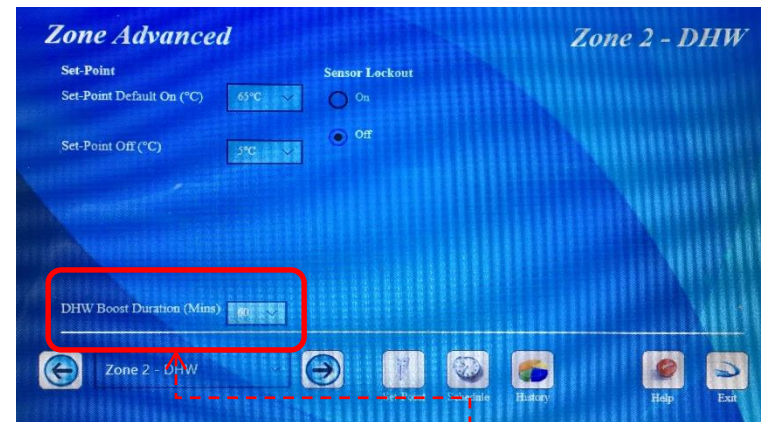3. Is there a handy Boost to switch on my Hot Water for a short period

Step 1. Press – Domestic Hot Water
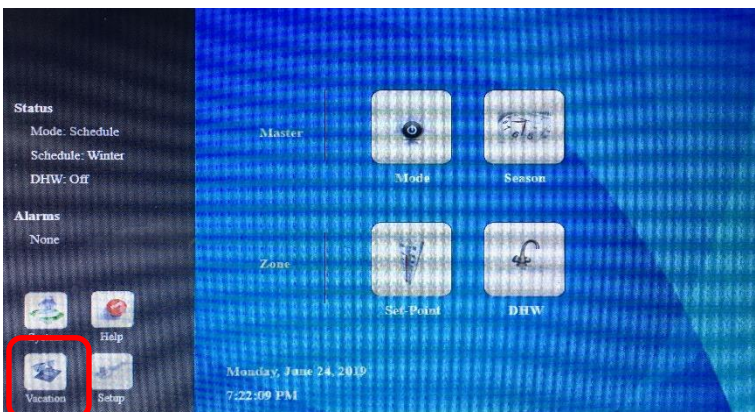

Step 2. Press – Boost

Boost Button will heat HW
With adjustable time from 10min – 2Hr
Mode.
Once the water has reached the
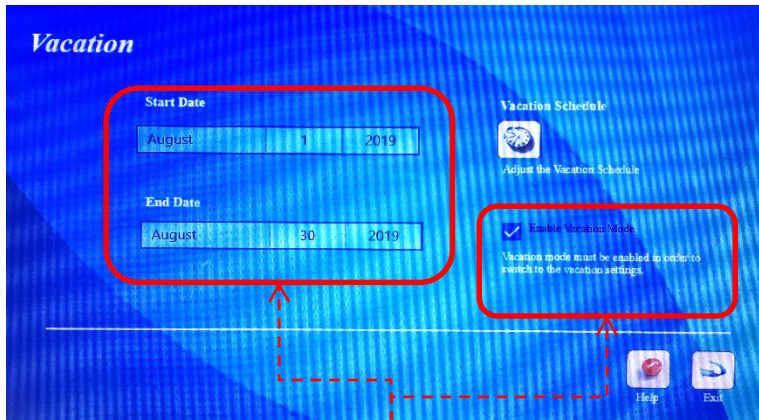desired SP the demand will stop

Step 3. In Advanced - Adjust Boost Duration

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5. Holiday

1. How do I set the holiday setting

Step 1. Press – Holiday Setup

Step 2. Select Dates Required
Step 3: Select Enable Vacation Mode

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6. Whole House Master Setting

1. Can I switch the whole house to different setting
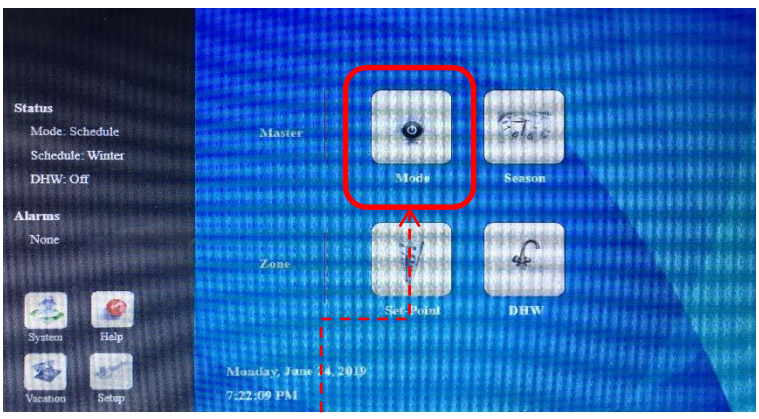
Step 1. Press – Master Setting

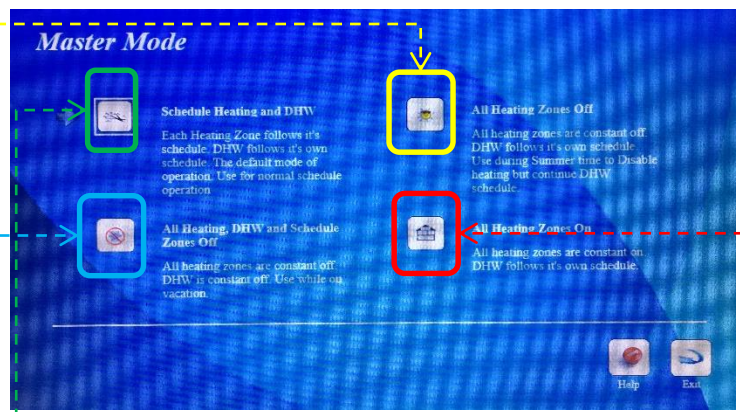Step 2. Select Schedule Heating /DHW Zone

OR

Step 2. Select All Heating Zones OFF

OR

Step 2. Select All Heating Zones ON

OR

Step 2. Select All Heating /DHW/Sch OFF

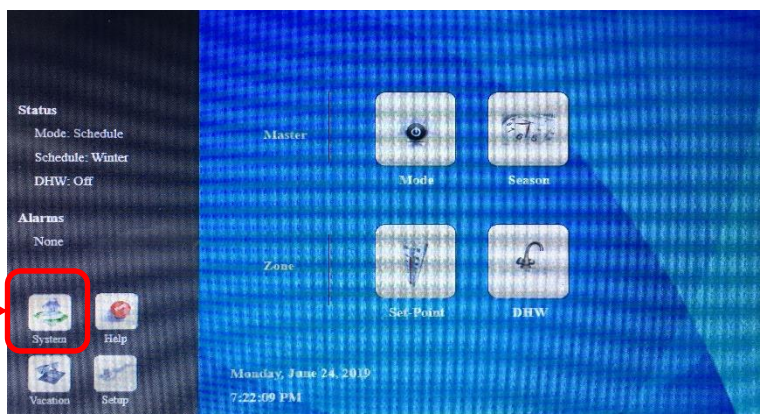Note: Each zone will follow it's respective time & Temperature

Note: Summer Time Operation

Note: Zones use their *Default ON* Temp set in Advanced

Note: Frost protect while away
Ufh = Set Back
All other zone Rad/DHW/Sch = Off

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7. Quick View

1. Can I look at all the room temperatures together

Step 1. Press – System Status

The status of each zone is display.

Overview:
This screen displays the statues of each zone

Zn:	Zone Number
Name:	Zone Name
T	Actual zone temperature
SP	Desire Set Point Temperature
Mode	Norma: Follows Schedule
	Stop: Ignore schedule & stay at Set Back
	Disable: Ignore schedule &stay at Frost protect

Schedule Heating State
ON If scheduled ON & OFF if scheduled OFF

Actual Heating State
Display the actual stats of the zone
Example:
A zone may be schedule OFF, but if the below it's SB
(Set Back) temp the zone will be calling for heat

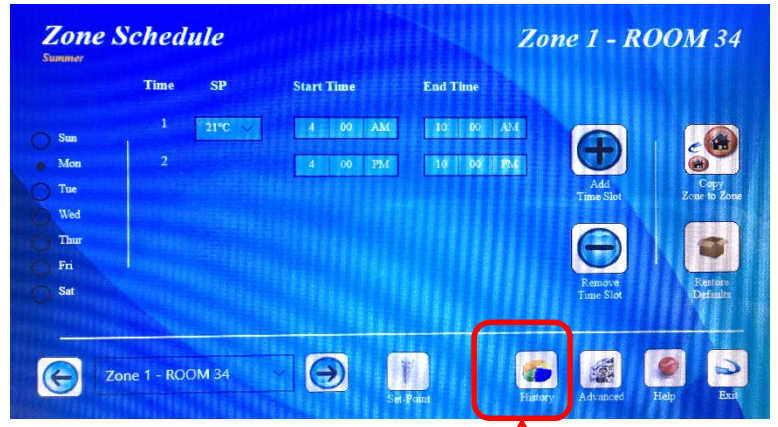**Cooling** Display ON if a zone is calling for cooling
Comms Stats ✓ Good Communication with sensor
x Lost Communication with sensor

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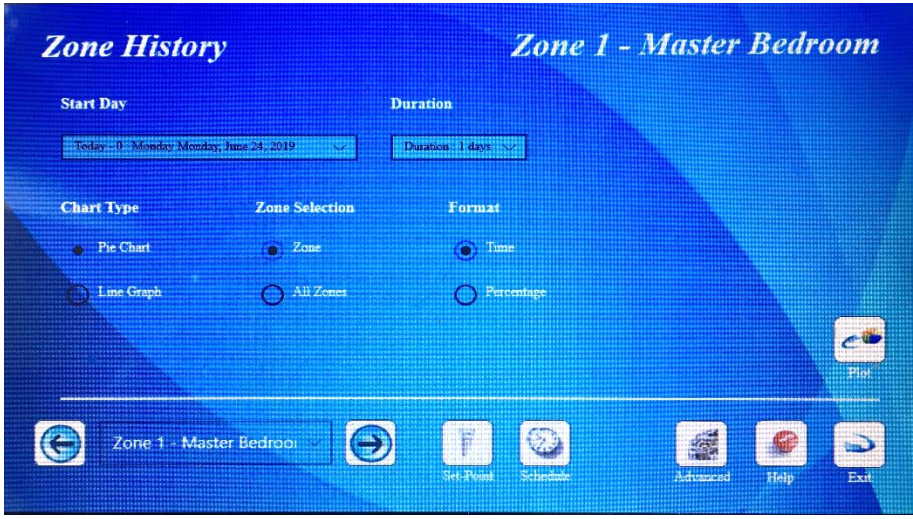
8. Historical Log

1. Where can I view heating energy use for each room
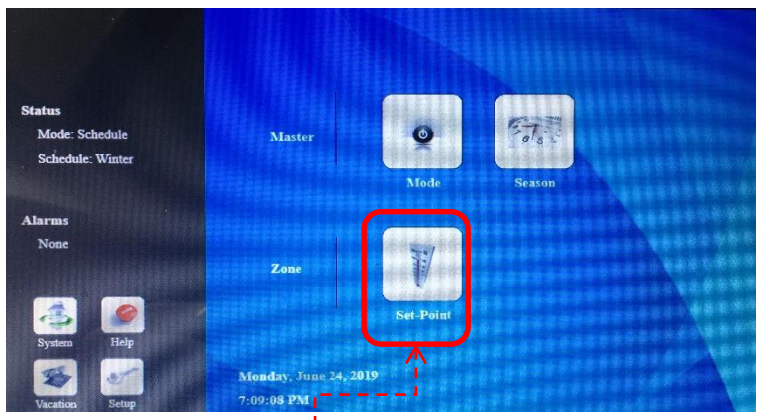
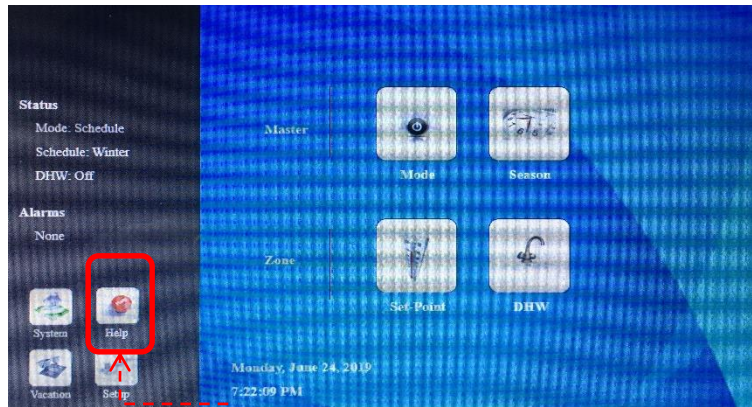

Step 1. Press – Zone Set-Point

Step 2. Press - History

History
Energy use can be viewed by
- Zone or Whole Dwelling
- Hr or % Usage
- Over different periods

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9. User Manuals

Where can I find the User Manuals

Step 1. Press – Help

Step 2 Select Required Manual

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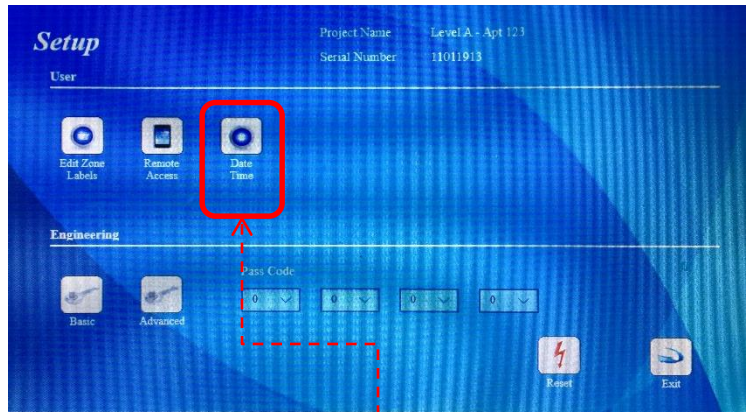
10. Master Clock

How can I adjust the Master Clock

Step 1. Press – Setup

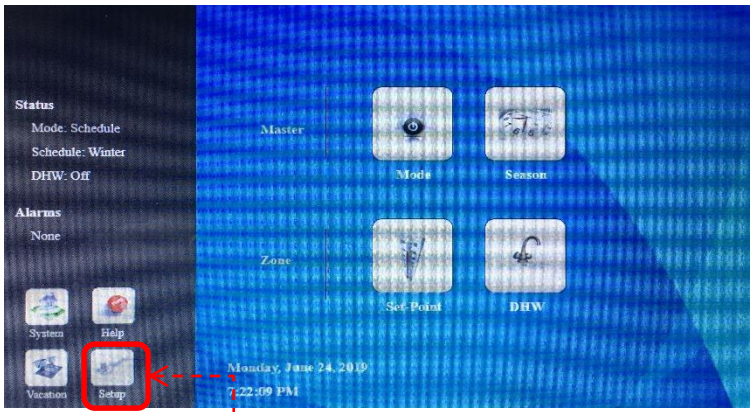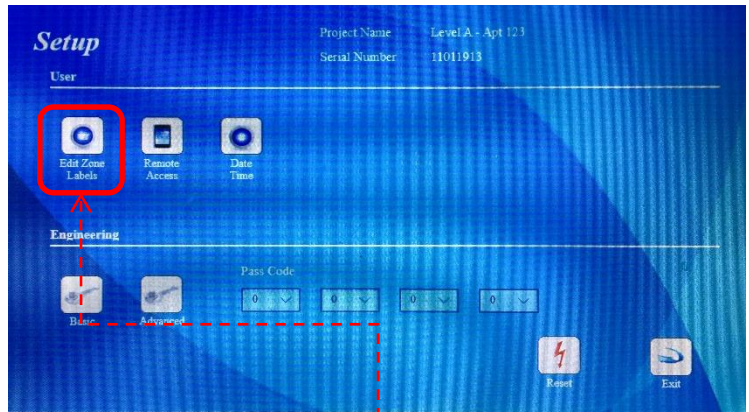

Step 2. Press - Time / Date

Comment:
If the time is amended, all zones SP (Set Point) will automatically change to the next scheduled SP value.

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11. Room Names

How Can I Edit the Room Names

Step 1. Press – Setup

Step 2. Press - Edit Zone Names

Use the keypad to enter names

Use the ← → keys to move between zones

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12. Engineering Assess

What is Engineering Assess
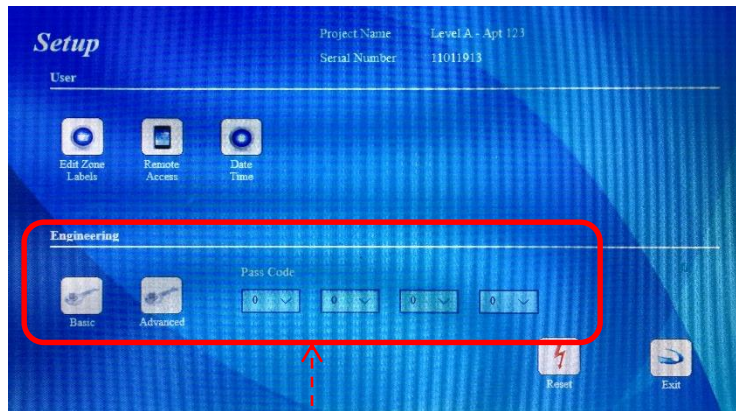
This area is used to configure the console to manage your dwelling.
This area is restricted to the installer.

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13. Exit

How do I get back to the home screen

Use this return key to step back to the main screen

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