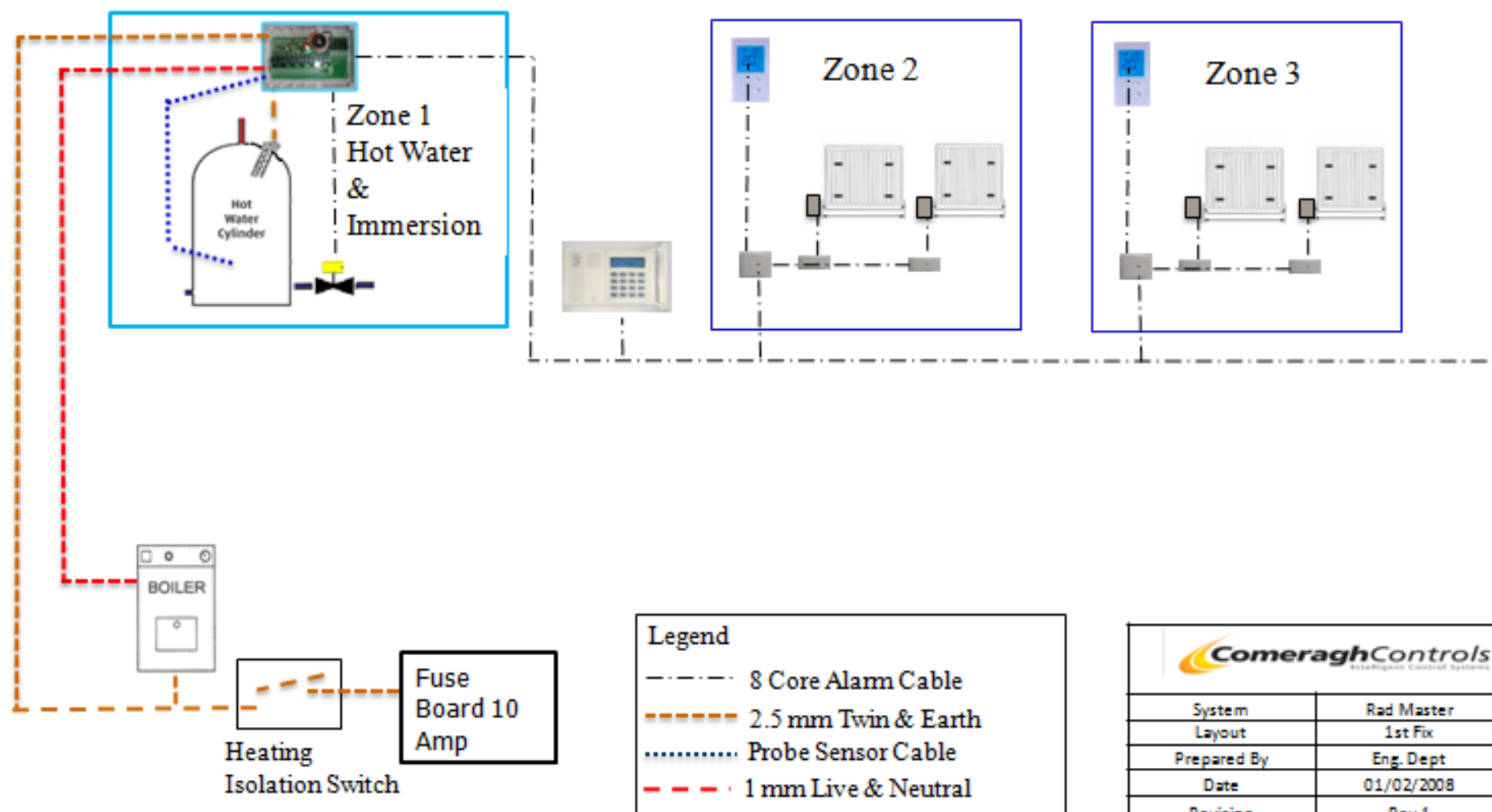



**Rad Master**  
**1<sup>st</sup> Fix Cabling**  
**Full Zone**  
**Single Power Pack**  
**Ver 16**



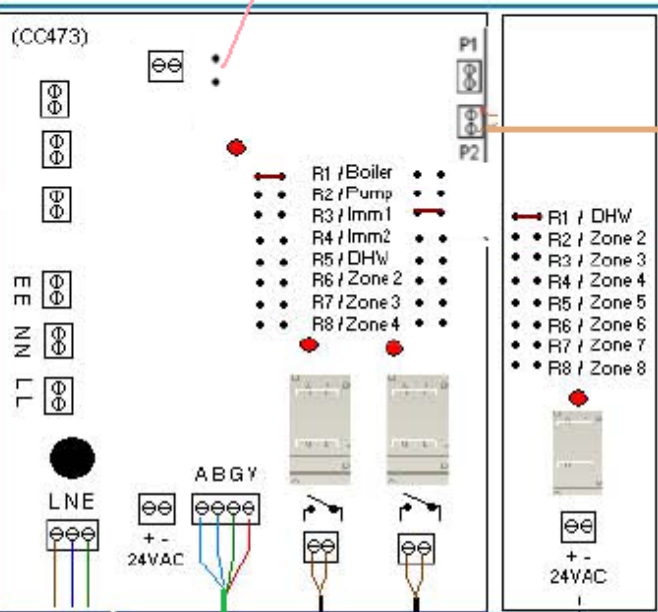
**Legend**

- 8 Core Alarm Cable
- 2.5 mm Twin & Earth
- ..... Probe Sensor Cable
- - - - 1 mm Live & Neutral

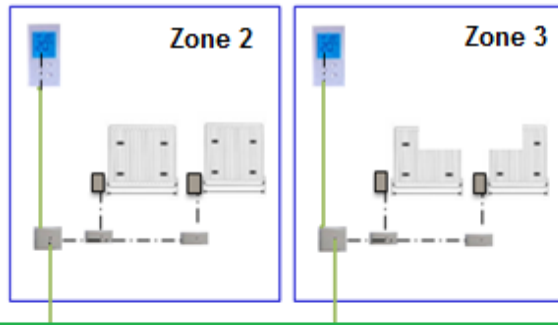
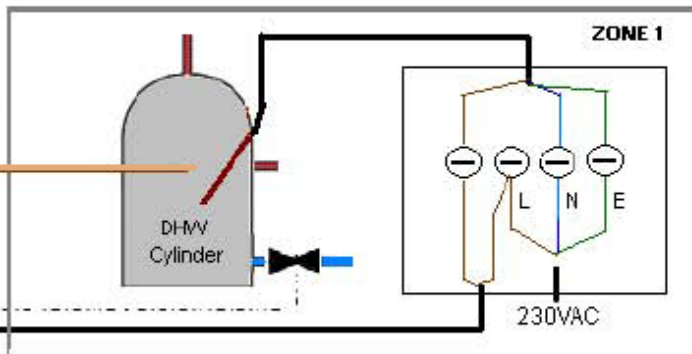
	
System	Rad Master
Layout	1st Fix
Prepared By	Eng. Dept
Date	01/02/2008
Revision	Rev 1

# Cylinder Logic Box

Address 1  
No Jumper

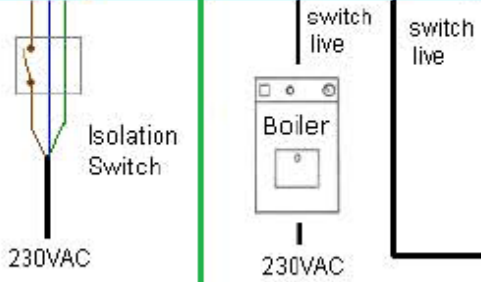


Cylinder Probe

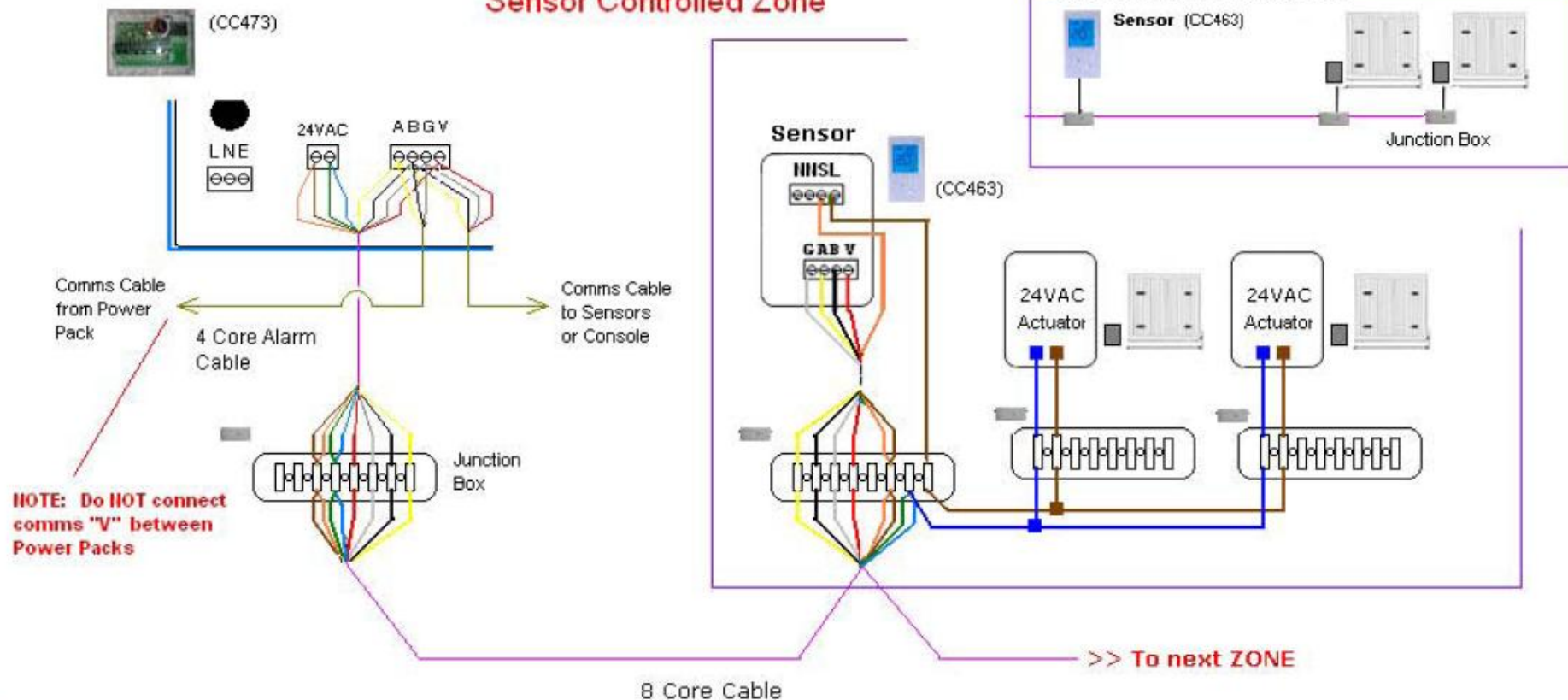


Attach all cable highlighted in pink box to terminal blocks 24VAC & ABGV

1mm 2 Core Cable  
2.5mm Twin & Earth  
8 Core Alarm Cable



## Detailed Wiring Diagram Sensor Controlled Zone



Sheet #3

System	Rad Master
Doc	CC-RM-WDMZ
Layout	MultiZone
Prepared By	Eng. Dept
Date	30/04/2009
Revision	Rev 1

- 1mm 2 Core Cable
- 4 Core Alarm Cable
- 8 Core Cable

## General Comments

- Logic Box Address
  - a) Cylinder (Logic Box 1) No Jumper
  - b) Boiler (Logic Box 2) Insert Jumper
- Wiring
  - a) Don't attached the red wire (12v) to the cylinder logic box
- Zones
  - a) Zone 1- DHW
  - b) Zone 2 1<sup>st</sup> Heating Zone
  - c) Zone 3 2<sup>nd</sup> Heating Zone
  - d) etc
- Sensors
  - a) Set the address

# Instructions to Electrician

1) DO NOT TURN ON POWER TO SYSTEM

Cost of repairing components destroyed as a result of a power ON will be charged to the electrician.

2) The number of Actuators per logic Box cannot exceed 15.

3) End devices (console, sensor or Logic Box) must be terminated.

4) All wiring must be SECURE, TIDY and, as much as possible, HIDDEN.

5) Use Glue Gun on long runs and tack corners with Clips.

6) The location of console and all sensors should be discussed with the home owner.

7) Do not locate sensor directly over a radiator (or other heat source) or in direct sunlight

8) All High Voltage wiring must be strain relieved at the Logic Box.



← Tighten so that wires cannot be pulled out or loosened.

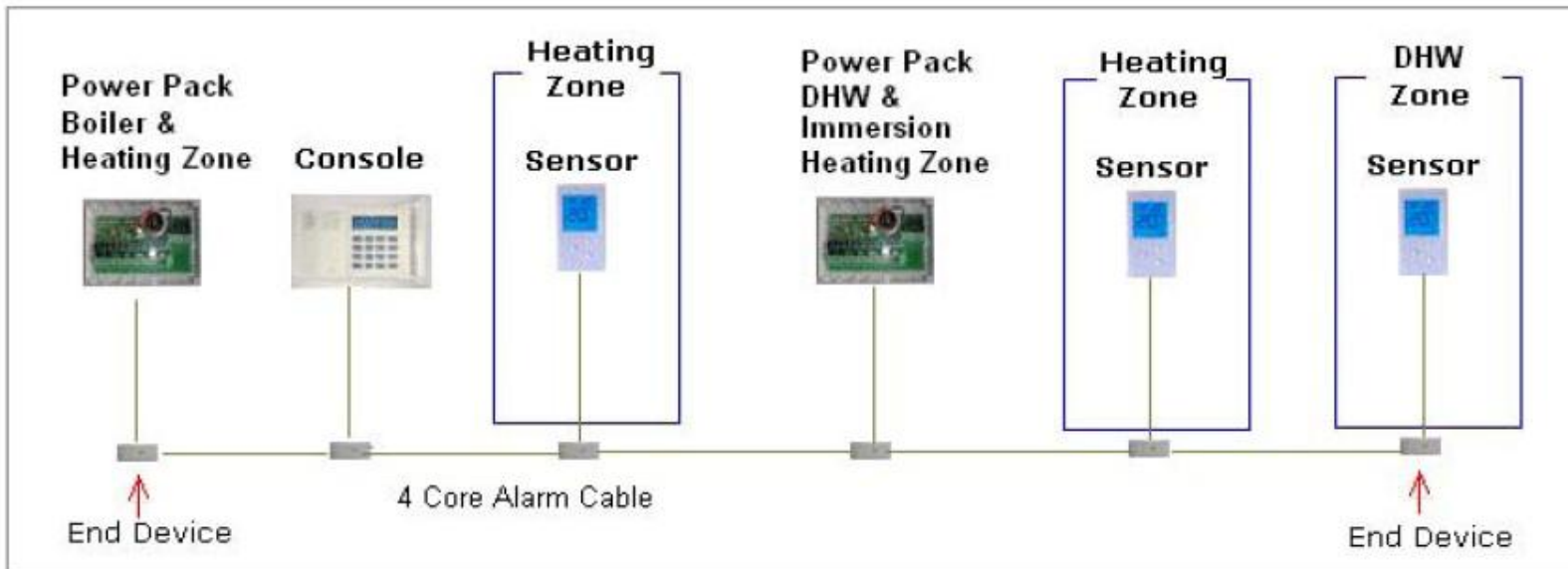
9) All Logic Box Openings must be plugged.

10) Set Boiler & Heating Power Pack to Address "0" and set DHW & Immersion Power Pack to "1."

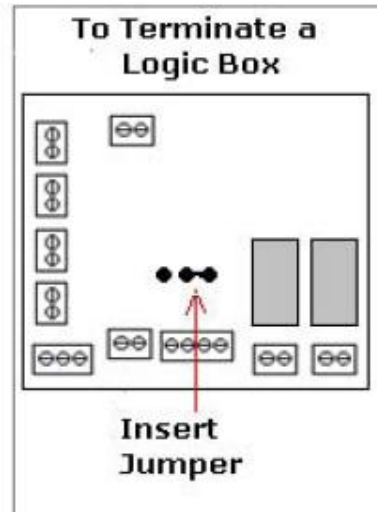
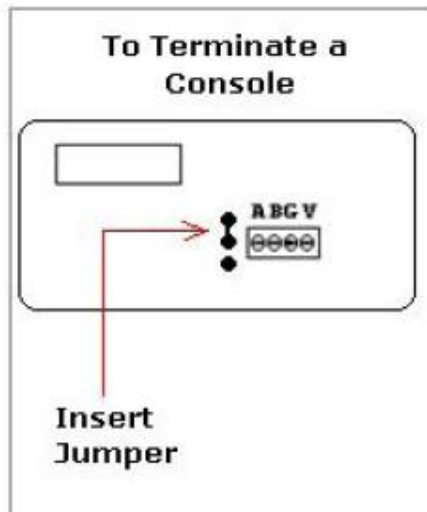
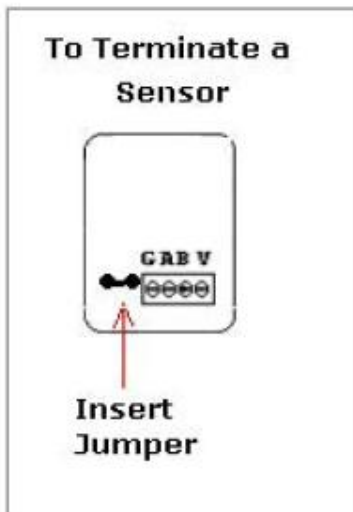
11) DO NOT Connect comms "V" to to DHW & Immersion Power Pack (see sheet 2).

System	Rad Master
Doc	CC-RM-WD4ZDPP
Layout	Dual Power Pack k
Prepared By	Eng. Dept
Date	30/04/2009
Revision	Rev 1

# Comms Termination



End Devices  
must be  
"TERMINATED"



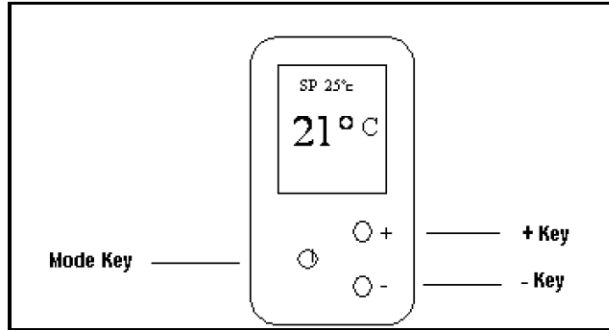
An End Device  
may be a Console,  
Logic Box or Sensor.



System	Rad Master
Doc	CC-RM-WD4.ZDPP
Layout	Dual Power Pack k
Prepared By	Eng. Dept
Date	30/04/2009
Revision	Rev 1

# Programming the Stats

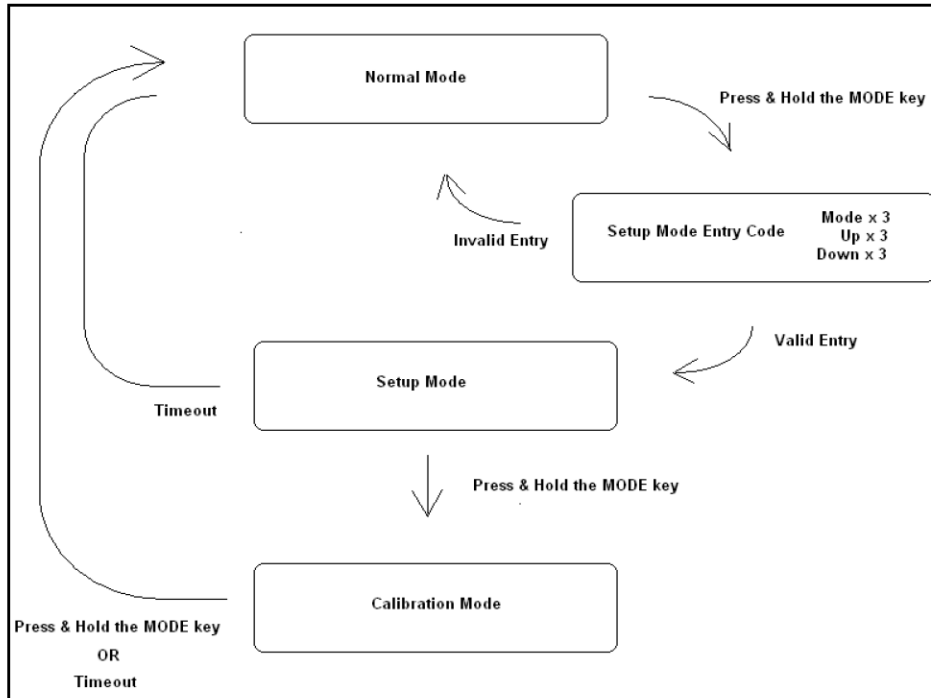
Sensor Buttons



There are 3 Modes of Operation:

1. Normal (End User),
2. Setup
3. Calibration.

Navigation between the modes is illustrated as follows:



Overview:

Each Stat must have its own unique zone number programmed

- Zone 1 – Default to DHW
- Zone 2-32 are for heating

Follow step indicated on the chart to program the stat

## Setting Zone Address

1<sup>ST</sup> Screen Displays- ST ←

ST (Stat Type)

Set St =0 (No relay on fitted inside stat)

Set ST=1 ( If relay install on inside stat)

2<sup>nd</sup> Screen Displays ZN ←

ZN (Zone Number)

Set the zone number here.

Press  
MODE  
button

## Calibration

To calibrate any sensor first of all enter the "calibration" mode (see left). Once you are in calibration mode the screens as shown at the bottom of the page will appear. To change the calibration of the sensor use the plus and minus buttons.

C1 is the air sensor and C2 is for the probe if you have a sensor with a probe e.g. floor probe or external air sensor. To move from C1 to C2 press the mode button.

## Check List

### Plumbing

- Automatic by-pass circuit fitted & tested
- The DHW valve is fitted in the direction of flow
- The DHW probe located  $\frac{3}{4}$  down cylinder – good contact cylinder metal body

### Electrical

- Check for any shorts across ABGV
- Cylinder Relay Board Address 1 ( Jumper Out)
- Cylinder Probe attached to Relay Board Address 1 - Connector P2
- Cylinder Relay Board – Comms cable (ABGV), V not attached

### Sensors

- Set address
- Set Type (Relay - Set ST to 1) (No Relay - Set ST to 0 )

### Console

- Set DHW BOOST on Saturday morning at 5am
- Set Frost Protection to 4° (En P01 = 0004)
- Set number of zones. (change from 32 to actual no zones) (En P080010 (10 Zones))
- Time and Date are set at the console

### System

- Set temp for each zone
- Setup schedule for each zone
- Check communication to each zone (Press Home & Mode together at console)
- Ensure each zone open it's respective radiators.
- Ensure the boiler activate 3 min after any zone call for heat.