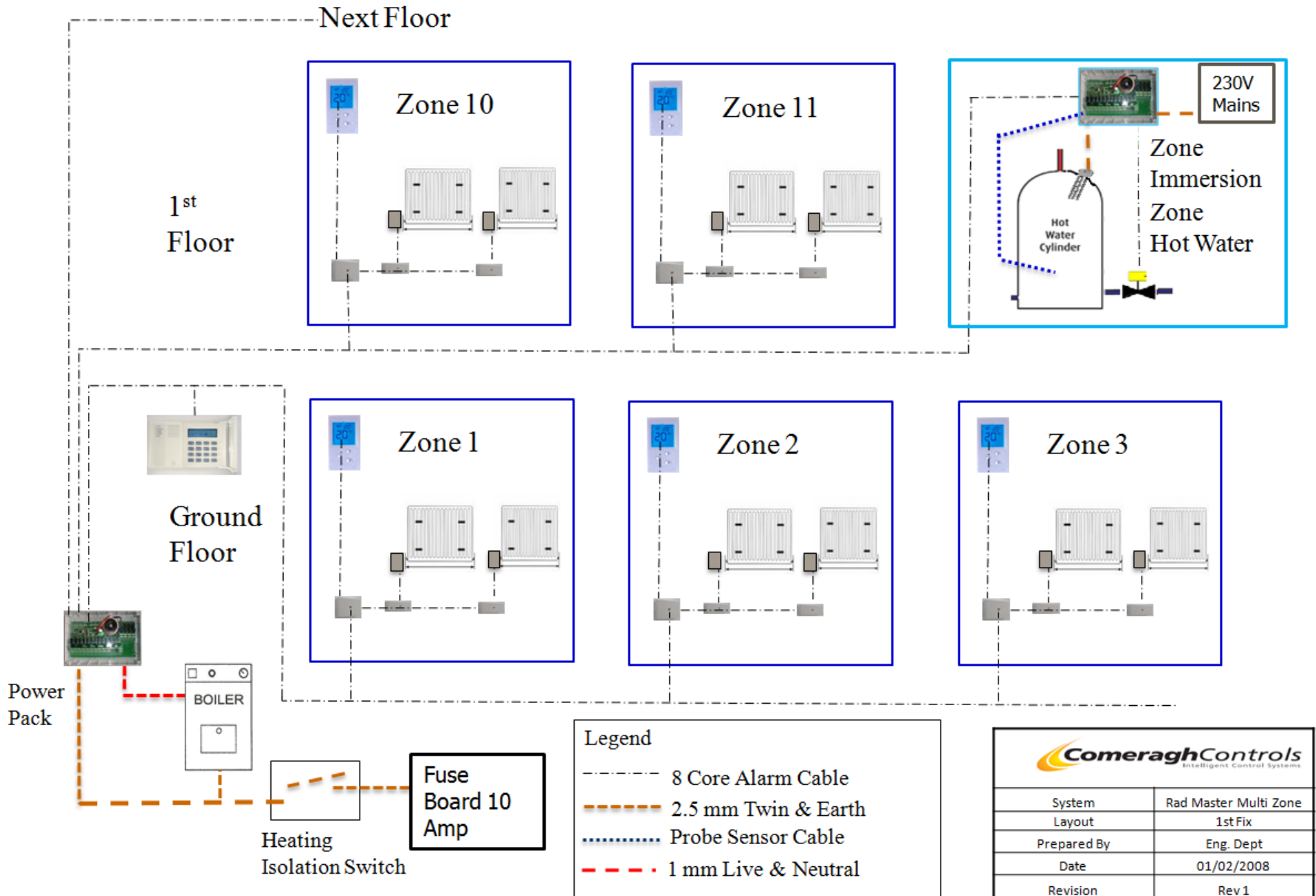
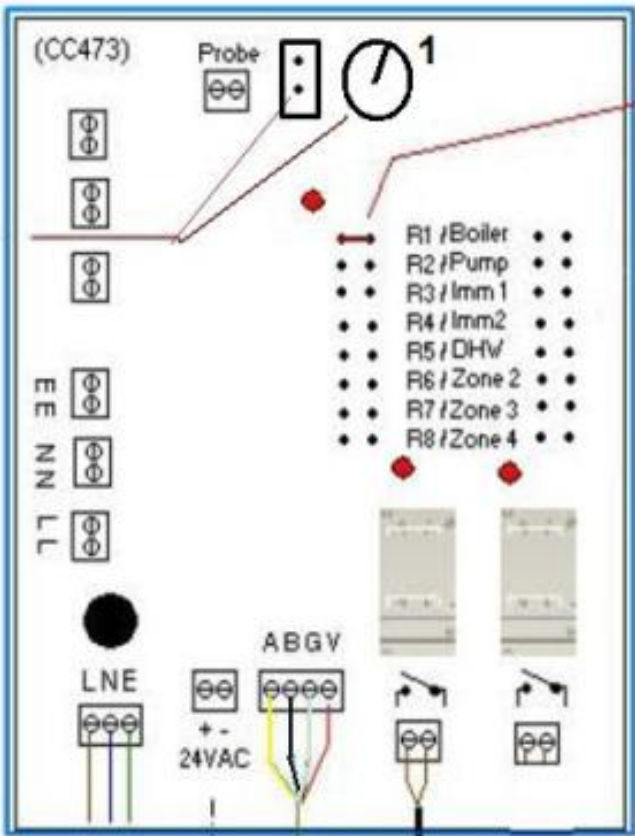


Rad Master wiring (Multi Zone) Ver 16



Boiler Logic Box

Insert Jumper or Set Dail Address Block to 1



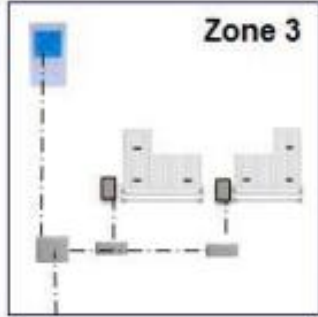
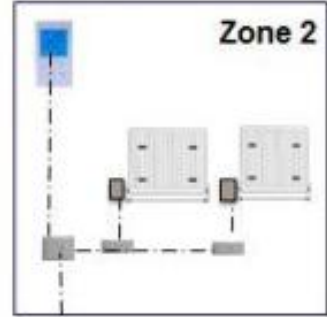
Note Jumper Settings

To Next Relay Board Beside Cylinder

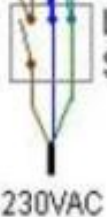


Note: Do not connect "V" to Relay Board No 1

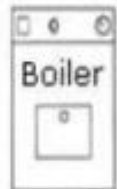
Console (CC475)



To 2nd Power Pack



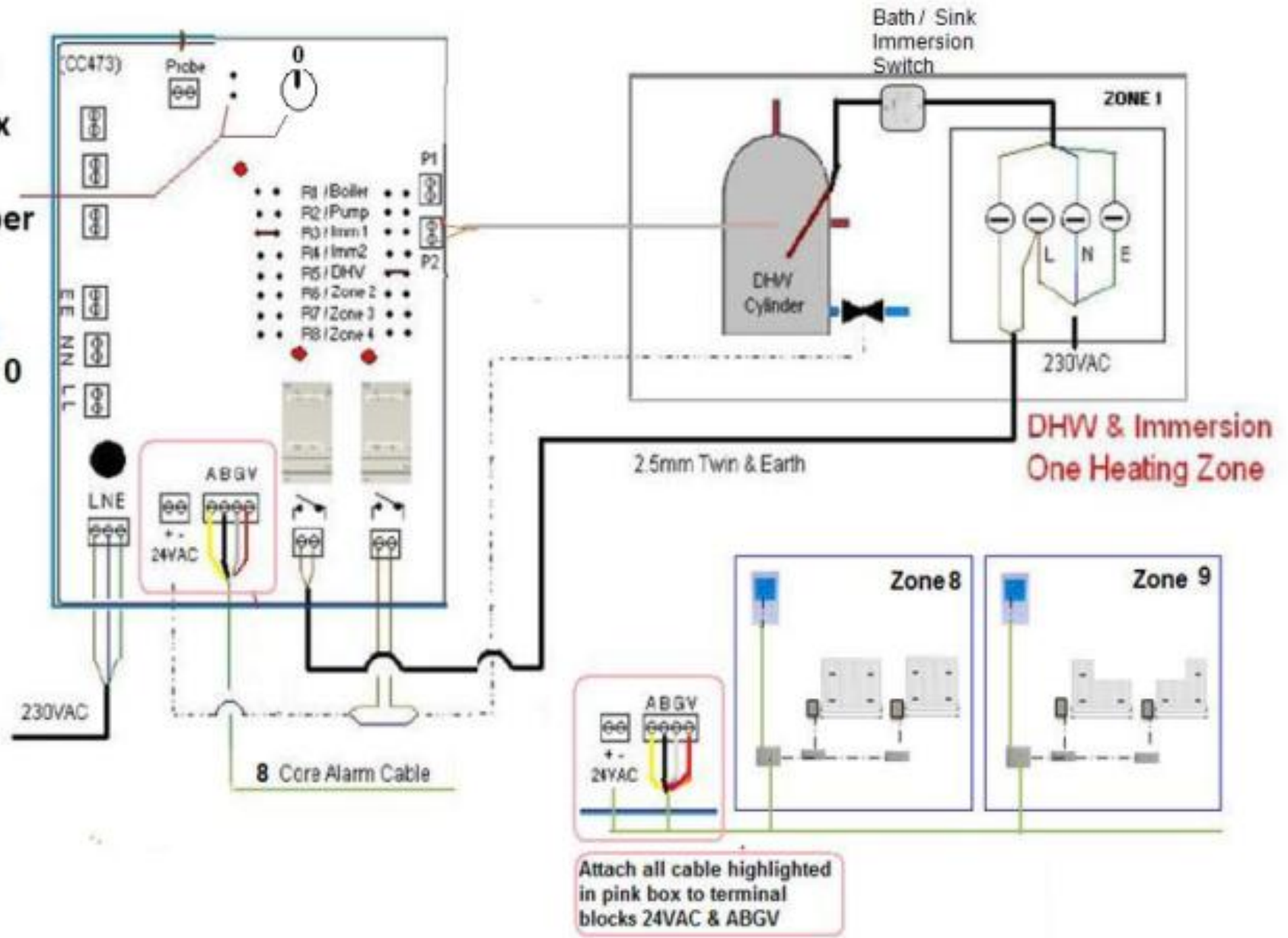
switch live



230VAC

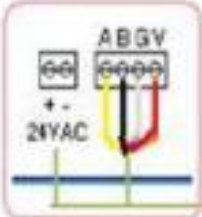
Cylinder
Logic Box

No Jumper
or
Set dial
address
block to 0



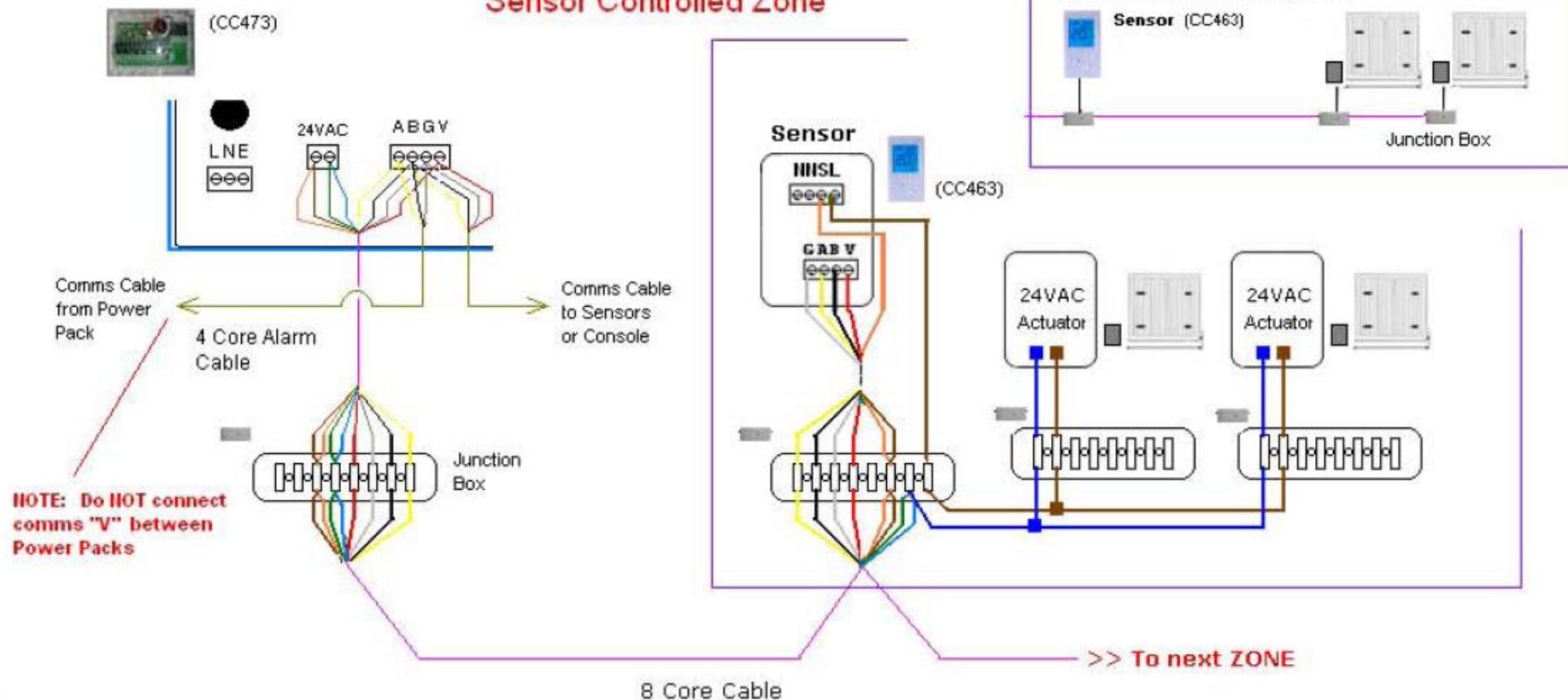
DHW & Immersion
One Heating Zone

2.5mm Twin & Earth



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

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 1st Heating Zone
 - c) Zone 3 2nd 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.

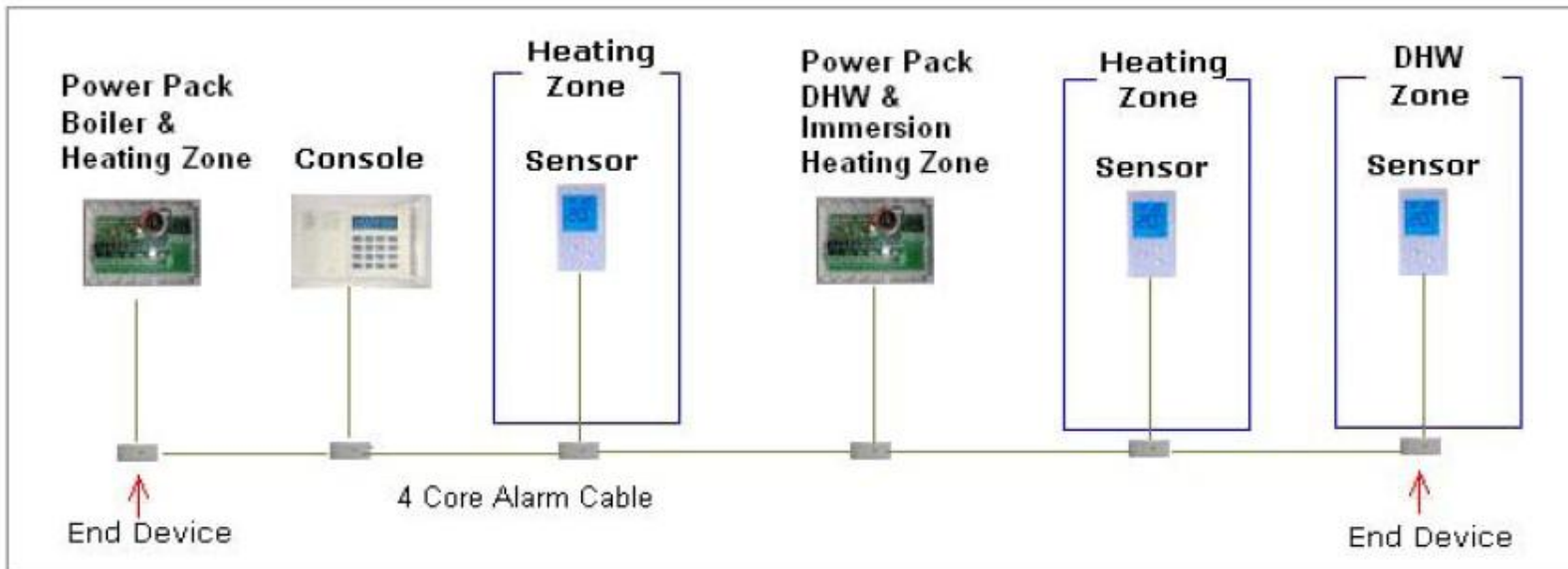
9) All Logic Box Openings must be plugged.

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

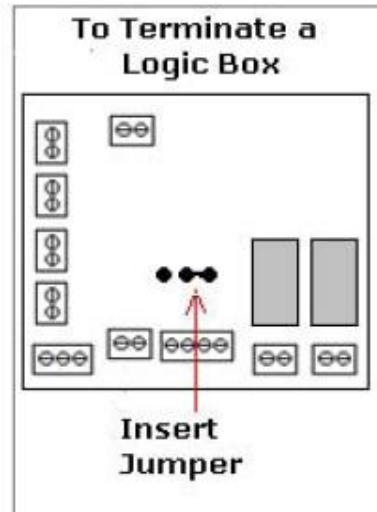
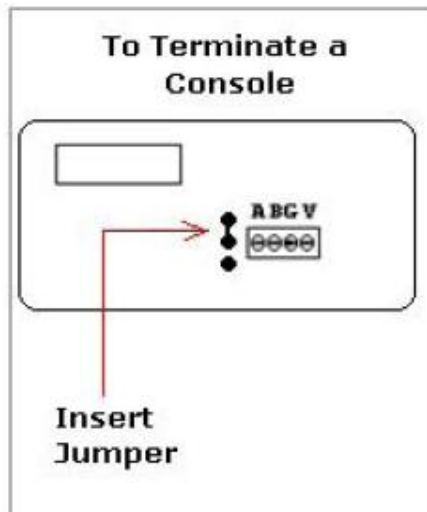
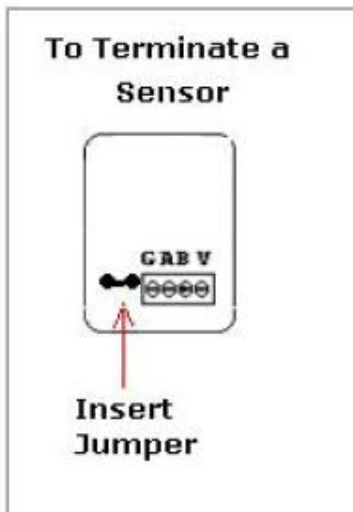
11) DO NOT Connect comms "V" to to DHW & Immersion Power Pack (see sheet 2).

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"



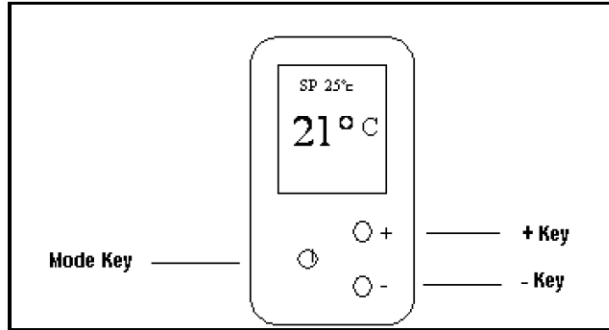
An End Device
may be a Console,
Logic Box or Sensor.



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

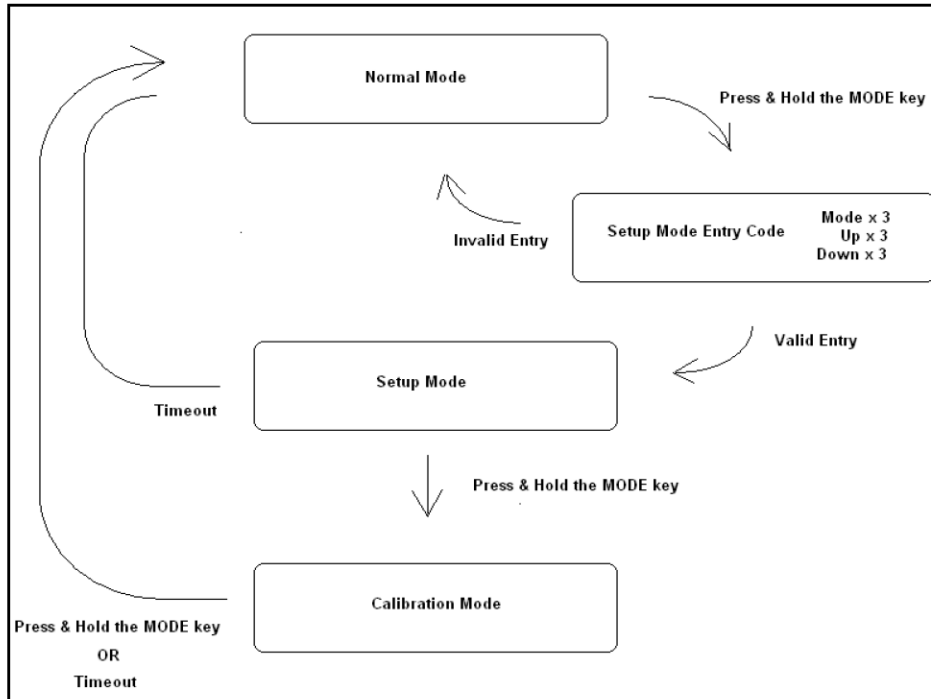
Sensor Buttons



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

1ST Screen Displays- ST ←

ST (Stat Type)

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

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

2nd 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.

Heat Dump

WARNING DANGER

Heat Dump used with a BACK Boiler

Valves used with the Comeragh Controls system are "Normally Closed." If the power fails in the building the controls system will cease to control heating and all valves will CLOSE. In this instance, excess heat from a back boiler cannot be dissipated through the radiator heating system. The Back Boiler may EXPLODE if the system is not designed or modified to ensure the HEAT SOURCE HAS RELEASE MECHANISM TO VENT HEATED WATER SAFELY. It is ESSENTIAL that the plumbing layout includes a pressure release valve to safely vent back boiler over pressure.

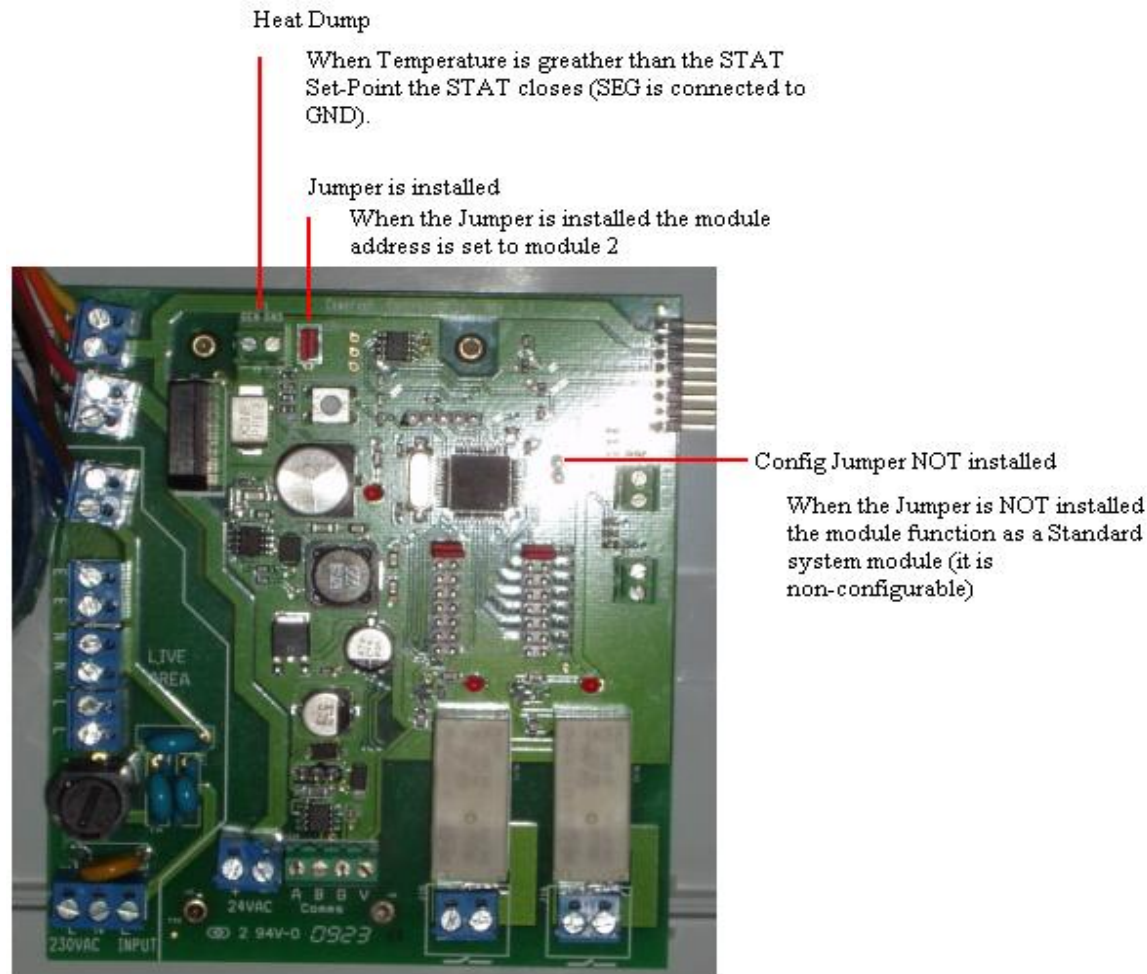
The Heat Dump feature is NOT A SAFETY FEATURE as it WILL FAIL in the event of a power LOSS.

It is the sole responsibility of the installer to ensure the system is installed with a pressure release valve for safety. Comeragh Controls take no responsibility for plumbing layout.

Heat Dump

Overview:

- Heat Dump will override zone control and activate all zone outputs (open all actuators), turn off the boiler and immersions.
- Heat Dump override is enabled when the input on the module 2 is closed and when the cc473 is in NOT in the “config” mode (the “config” jumper is NOT inserted).
- Heat Dump override is also enabled when the probe temperature reading is greater than 80°C.
- This function only applies to the cc473 I/O module.



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
- Boiler Relay Board address 2 (Jumper In)
- 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.