© 2020 Criosu Controls Ltd

No part of this document may be reproduced by any process without the prior written permission from Criosu Controls Ltd.

The information in this document is provided for reference only. While every effort has been made to make sure it is accurate and complete, Criosu Controls Ltd does not accept any liability arising out of the application or use of the information or products described herein. Moreover, Criosu Controls Ltd reserves the right to alter specifications or procedures without notice.

This document may contain or refer to information or products protected by copyright or patents and does not convey any license under the patent rights of Criosu Controls Ltd nor the rights of others.

All products referred herein are trademarks of their respective owners.

CC200 HV5 INSTALLATION (ZIGBEE SYSTEM)

CRIOSU CONTROLS

Table of Contents

Introduction	. 2
Plumbing Steps	. 3
Step 1 Drain the system	. 3
Step 2 Mount the Valves at each radiator	. 3
Step 3 Refill The System	. 3
Electrical Wiring Steps	. 4
Step 1 Mount the Boiler Controller beside the Boiler	. 4
Step 2 Mount the cc200HV3 Console in a central location	. 4
Step 3 Wire the control cable from the Boiler Controller to the cc200HV3 Console	. 4
Step 4 Attach the Antenna	. 4
Step 5 Connect a Ethernet cable from the router to the cc200HV3 Console	. 4
Pairing Zigbee Actuators and Labelling Zones	. 5
Step 1 Press "Setup" on the Home Screen	. 5
Step 2 Press "Retrofit System" on the Setup Screen	. 5
Step 3 Select the Zone and Edit the Zone Label	. 5
Step 5 Place the Radiator Actuator close to the Touch Screen	. 6
Step 6 Add a Radiator Actuator to the System	. 6
Step 7 Initiate Pairing at the Touch Screen	. 7
Step 8 Initiate Pairing at the Radiator Actuator	. 7
Step 9 Calibrate the Temperature at the Radiator Actuator	. 8
Step 10 Mount the Radiator Actuator	. 8
Step 11 Confirm Operation	. 8
System Validation	. 9
Step 1 Turn Heading ON in all zones	. 9
Step 2. Confirm that the Boiler Pump turns ON	. 9
Step 3. Confirm that the Boiler turns on	. 9
Step 4. Confirm that All Radiators Heat up	. 9

Introduction

Installation of the cc200HV3 Zigbee system consists of the following stages:

- 1. **Plumbing** (Draining of the system, mounting the valves and refilling the system)
- 2. **Electrical** (Mounting the IO Controller and Console and wiring in the A/C and control cable)
- 3. Attaching Actuators (Follow procedure to attach Zigbee Thermostatic actuator to the system)
- 4. cc200HV3 Setup
- 5. Performing a validation system Test

Plumbing Steps

NOTE If Thermostatic valves are already installed then skip to Step 2

Step 1 Drain the system

Step 2 Mount the Valves at each radiator



Step 3 Refill The System

Electrical Wiring Steps

Step 1 Mount the Boiler Controller beside the Boiler

Wire the A/C through a maintenance switch.

Wire relay 1 to the Boiler ON/OFF

Wire Relay 2 to the Pump.

Step 2 Mount the cc200HV3 Console in a central location.



Step 3 Wire the control cable from the Boiler Controller to the cc200HV3 Console



Note 1 'A' must be connected to 'A', 'B' must be connected to 'B', 'V' must be connected to 'V' and 'G' must be connected to 'G'

Connecting 'V' to 'A' or to 'B' or to 'G' WILL DESTROY THE DEVICE

Note 2 DO NOT connect 'V' between Logic Boxs

Step 4 Attach the Antenna

Step 5 Connect a Ethernet cable from the Router to the cc200HV3 Console

Pairing Zigbee Actuators and Labelling Zones

Step 1 Press "Setup" on the Home Screen



Step 2 Press "Retrofit System" on the Setup Screen



Step 3 Select the Zone and Edit the Zone Label

Note: this step is optional but recommended.



Step 5 Place the Radiator Actuator close to the Touch Screen

This is required to ensure successful pairing.



Step 6 Add a Radiator Actuator to the System

Step	Description
1	Select the Zone in which to place the Radiator Actuator
2	Press for include a Radiator Actuator in the system.
	Select "Radiator_Actuator" and press "+"
	Zigbee Devices Radiator_Actuator
	Device Type Batt Link Quality
	Znl - Zone 1 UFH/Zigbee/Living Bdit Label

Step 7 Initiate Pairing at the Touch Screen

Press "Pair" to initiate pairing at the Touch Screen

Radiator_Actuator	Y	and y			
		Pair	Remove	Manual	
Pairing Radiator_Actuator	Device is	required.			

Note: The pairing process **at the Radiator Actuator** must be initiated within **20** seconds of pressing "Pair."

Step 8 Initiate Pairing at the Radiator Actuator

Step	Description
1	This step is only required if Child Lock is on.
	Press hold 'Boost' button for 3 seconds to disable 'Child Lock' 'Child Lock' ON will prevent the pairing procedure.
2	Press the 'Boost' button to turn the display ON
3	Press and hold the 'Switch' and 'Comfort' buttons for 3 seconds to initiate the pairing process on the Radiator Actuator.

The Wifi Symbol will flash when the Radiator Actuator is pairing.

An 'x' beside the Wifi Symbol indicates the Radiator Actuator is NOT paired.



Button

Step 9 Calibrate the Temperature at the Radiator Actuator

Calibration of the Radiator is not strictly required but strongly recommended.



Step 10 Mount the Radiator Actuator

Step 11 Confirm Operation

Toggle the State of the Actuator to ensure its' proper operation



System Validation

Step 1 Turn Heading ON in all zones

Ensure the Setpoint in each zone is greater than the Zone temperature.

Step 2. Confirm that the Boiler Pump turns ON

The pump will turn one the Actuators turn ON

Step 3. Confirm that the Boiler turns on

The Boiler will turn ON after the pump has turned ON

Step 4. Confirm that All Radiators Heat up