

# **iCon – Quick Commissioning Manual**

## **Using CC200 (7”) Touch Screen**

### **Advanced Level**

### **Ver 18.06.01.xx**

#### **Title Page**

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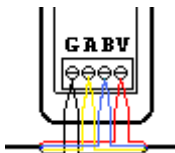
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**IMPORTANT**  
**Before Switching ON**

**CHECK**  
**FOR ANY**  
**ELECTRICAL**  
**SHORTS**

**Check for any shorts**

Use a DVM ( Digital Volt Meter ) and check for any shorts between A,B,G,V,  
typically if there are no shorts the reading will be approx  $1k\Omega$  or greater ,  
if there is a short the reading will be approx  $1-10\Omega$



Pass    Approx.  $1000\Omega$  or greater  
Fail    Approx.  $1-10\Omega$

# iCon – Quick Commissioning Manual

## 1. Quick System Check

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- Ensure System is Power OFF ☐
- Check Communication wiring (A,B,G,V) at Stat, Console, I/O Boxes ☐
- Check I/O Boxes {220v Outputs, Switch Lives & Inputs} are wired correctly ☐
- Set address on all I/O Modules ☐
- Power ON system ☐
- Set Zone address on all stats ☐
- Touch Screen – Environment Setting – TS Port (0=USB)(2=RS485) ☐
- Set Time at the Console ☐
- Set all Zone SP to a value above Zero ☐
- Ensure each Zone Schedule is set up. ☐

## 2. Quick Operation Test

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- Set to Timer Mode ☐
- Set all Zone to Disable ☐
- Set all Zone SP to 30 °C ☐
- Individually De-Select Disable on each Zone and check if the correct Relay(s) /Actuator(s) are activated ☐
- Check if all associated equipment is activated e.g. Manifold Pump, Boiler etc ☐
- Edit Configuration if Required {Electrical Mistake or New plumbing layout } ☐

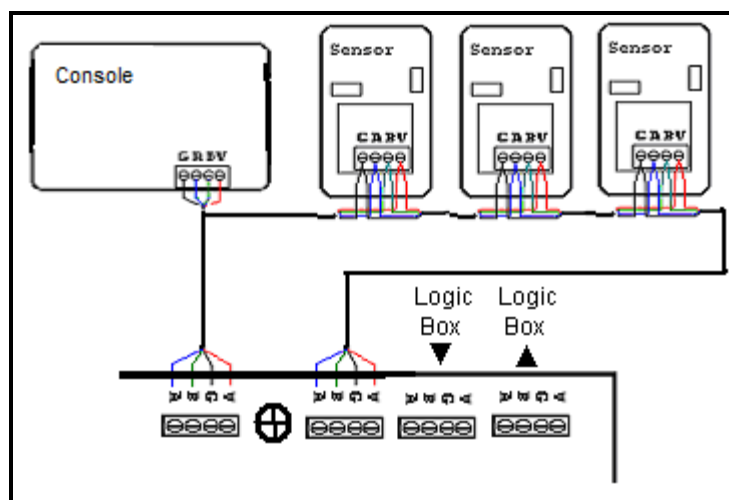
### 3. Key Notes

#### Cable Type

**0-250 meter installations (Domestic Applications)**

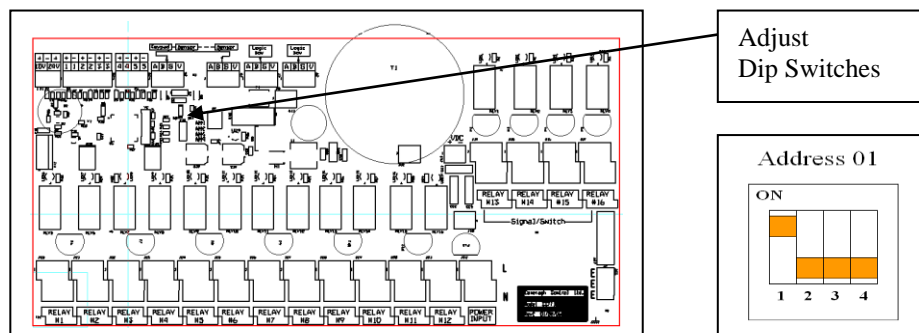
Cable Type	General Data Cable
Number Of Cores	4
Core Strands	7 / 0.2
Cable O-D	3.4mm
Conductor Material	Tinned Copper

#### Communication Connection – Pin Outs



#### Addressing I/O Module

##### I/O Addressing (Rev 11)

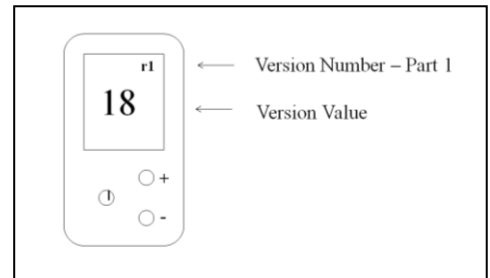


## Configuring Sensor

### Accessing Engineering Mode

Steps

- i. Press and hold Power Button – Revision Number appears
- ii. When the revision number appears, press buttons in the following sequence
  - Press ① 3 times
  - Press + 3 times
  - Press - 3 times

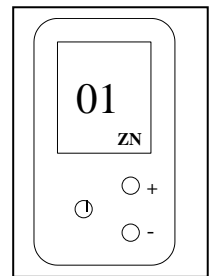


### Setting the Zone Number

**Overview:** Each area (room) must have a zone number

- i. After accessing engineering mode (steps 1&2 above)
- ii. Press ① to move between state “ST” (Stat Type) and Parameter
- iii. Set ST to 0 for Zone
- iv. Press ①
- v. Use the + and - Keys to set the (ZN) Zone Number

**Ensure that all zones are set correctly matching the console**

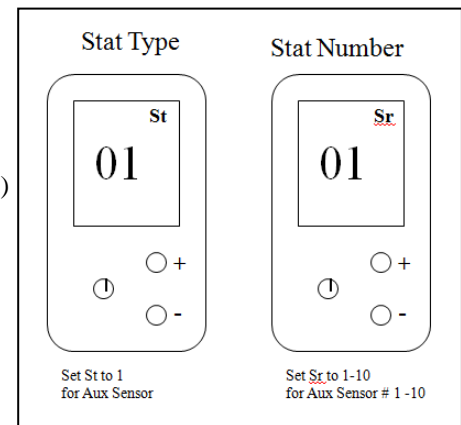


### Configuring Sensor as a Auxiliary (Aux) Sensor (e.g. External Sensor or Flow Sensor)

**Overview:** Any stat can be configured as a E.g External Sensor or Flow Sensor

- i. After accessing engineering mode (steps 1&2 above)
- ii. Set St to 1 for Aux Sensor.
- iii. Press ① again to set Sr. (Sr = Sensor Reference)  
(The Sr number should correspond the Aux list)
- iv. Use the + and - Keys to set the Sr

Sensor	Type	Channel	Set Point #1	Set Point #2
1	External_Sensor	Ch2 - Probe Temperature	0	0
2	Flow_Temp	Ch2 - Probe Temperature	0	0
3	Reference_Temp	Ch2 - Probe Temperature	0	0
4	Flow_Temp	Ch2 - Probe Temperature	0	0
5	Flow_Temp	Ch2 - Probe Temperature	0	0
6	Flow_Temp	Ch2 - Probe Temperature	0	0
7	Flow_Temp	Ch2 - Probe Temperature	0	0
8	Flow_Temp	Ch2 - Probe Temperature	0	0
9	Flow_Temp	Ch2 - Probe Temperature	0	0
10	Flow_Temp	Ch2 - Probe Temperature	0	0

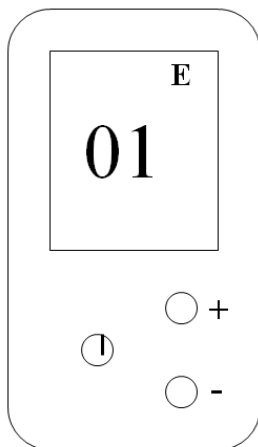


## St - Sensor Types

(St) Stat Type	Sensor Type (St)	Range	Sensor Displayed Heading
0	Zone(ufh/uProbe/rads/probe/ DHW )	ZN (0-32)	ZN
1	Aux (External / Flow / Reference / Temp etc)	1-9	E= External Temp F = Flow r = Return t = Temperature ( General Use)
2	Dual Zone Sensor	1-32	1 <sup>st</sup> Zone - Normal Screen 2 <sup>nd</sup> Zone – ZN (At bottom)
3	Not Used	n/a	tba

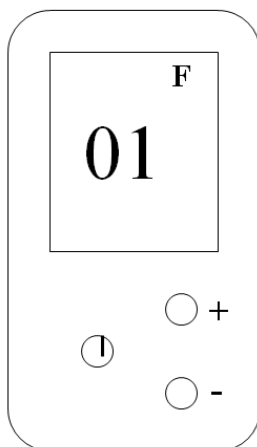
## Aux Sensors – Examples

External Stat



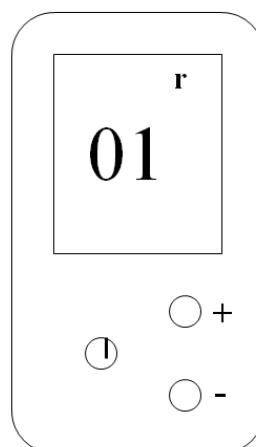
E = External Stat  
Aux Type : External

Flow Stat



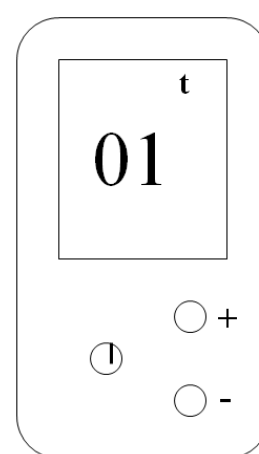
F = Flow Stat  
Aux Type : Flow

Reference Stat



r = Reference Stat  
Aux Type : Ref

Temperature Stat



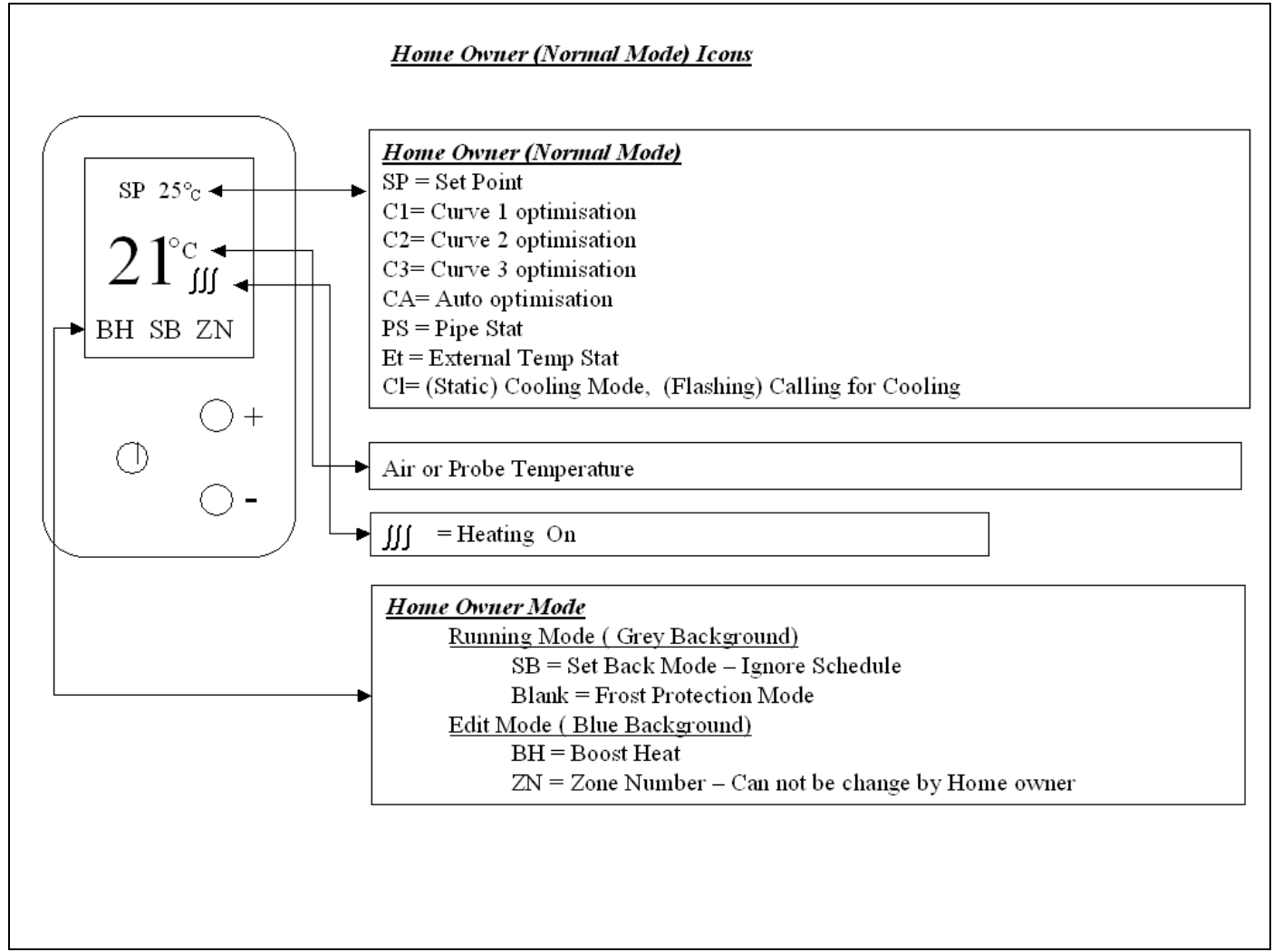
t = Temperature Stat  
Aux Type : Temp

## Aux Sensors List in Eng Mode

Sensor	Type	Channel	Set Point #1	Set Point #2
1	General Sensor	CH2 - Probe Temperature	0	0
2	Flow_Temp	CH2 - Probe Temperature	0	0
3	Reference_Temp	CH2 - Probe Temperature	0	0
4	Flow_Temp	CH2 - Probe Temperature	0	0
5	Flow_Temp	CH2 - Probe Temperature	0	0
6	Flow_Temp	CH2 - Probe Temperature	0	0
7	Flow_Temp	CH2 - Probe Temperature	0	0
8	Flow_Temp	CH2 - Probe Temperature	0	0
9	Flow_Temp	CH2 - Probe Temperature	0	0
10	Flow_Temp	CH2 - Probe Temperature	0	0

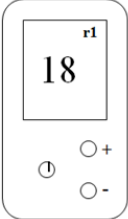
## Stat Symbols

### Home Owner (Normal Mode) Icons



## Stat Symbols - Engineering Mode Icons

### Engineering Mode Icons



← Version Revision  
 ← Version Number

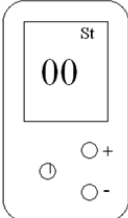
Access Eng Mode      Press & Hold Mode Button

Press Mode      x 3

Press +      x 3

Press -      x 3



Application	Sensor Type (St)	2 <sup>nd</sup> Screen
Zone ( ufh / Rad / DHW / Probe etc)	0	Zn ( Zone Number\) 1-32
Aux Sensor (External / Flow Reference etc)	1	Sensor Reference (Sr) 1-10

## Pre-Commission: Sensor Notification Layout

