

iCon – Quick Commissioning Manual

Title Page

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IMPORTANT Before Switching ON



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



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1. Quick System Check

	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	
	Calibrate all stats	
	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	
	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	F
	Cable	
Number Of Cores	4	1
Core Strands	7 / 0.2	5
Cable O-D	3.4mm	
Conductor	Tinned Copper	
Material		

Reel Length	RS Stock no.
100 Meter	365-571
500 Meter	365-600

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RS Components Web: www.rswww.com Tel: UK Orderline: Tel: UK Online Help:

08457 201201 01536 444222

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 0 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" and Parameter
- iii. Set ST = 0 for Zone
- iv. Press O
- v. Use the + and Keys to set the (ZN) Zone Number

Configuring Sensor as a HW Relay

- **Overview:** Any stat can be configured as a hw rELAY
- i. After accessing engineering mode (steps 1&2 above)
- ii. Press O to move between state "ST" and Parameter
- iii. Set ST = 1 for Relay.
- iv. Press ① [I/O appears in top left] Set To 1
- v. Use the + and Keys to set the I/O box number (1-8) the stat is compensating

St - Sensor Types

Туре	Sensor Type (St)	Headings	Range	Comments
0	Zone(ufh/rads/DHW/probe)	ZN	ZN (0-32)	IO= I/O Module (Manifold) Address 1-8
1	Flow	F1	IO (0-8)	F4= "F" Flow Stat . "4" I/O Box 4
2	Return	R1	IO (0-8)	R6= "R" Return Stat . "6" I/O Box 6
3	External Temperature	ET	None	Et= External Temp

^{zn} 04	F2 04	^{R8} 04	Et 18











Stat Symbols

Home Owner (Normal Mode) Icons





Stat Symbols - Engineering Mode Icons





Zone Configuration



to change the zone parameter number. Use Numerical keys to enter the parameter value. to change Zone. Press

The following Table identifies the Zone parameters. Refer to the "iCon Sensor Operation" document for a detailed description of the use of the parameters.

#	Parameter	Max Valve
1	Zone Type	3
	0: UFH	
	1: RAD	
	2: DHW	
	3: PROBE	
2	Zone Deadband	20
3	Zone Cooling Fan 1 Offset	20
4	Zone Cooling Fan 2 Offset	20
5	Zone Cooling Fan 3 Offset	20
6	Zone Secondary Maximum	80
	Zone will be forced to the OFF state if the temperature of the secondary channel is greater than the Secondary Maximum.	
	The override condition is not applied if the Screed Maximum is 0.	
7	Zone Secondary Minimum	80
	Zone will be forced to the ON state if the temperature of the secondary channel is less than the Secondary Maximum.	
	The override condition is not applied if the Screed Minimum is 0.	
8	Zone DHW Energy Saver	80



Environment Parameters



#	Parameter
Press	to change the system parameter number. Use Numerical keys to enter the parameter value.

1.1

#	Parameter	Max
1	Frost Protection	18
2	Minimum Heating Set-point	18
3	Minimum Cooling Set-point	35

A cooling set-point cannot be set below the Minimum Cooling Set-point (e.g if the Minimum Cooling Set-point is 23 and a zone set-point plus Deadband is 21, then cooling set-point is set to 23).

Cooling is disabled if the Minimum Cooling Set-point is 0.

4 5	Module 1 Input 5 Max Zones	1 32
6	If not programmed ("0") then the default number of zones (32) is assumed. Max I/O	8
	If not programmed ("0") then the default number of I/Os (8) is assumed.	

Virtual I/O modules must be included.