

iCon Touch Screen Console (Model CC-200-HV3)



Technical Specification

Model

Model	CC-200-HV3
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User Interface

Screen	7" TFT
Interface	Touch Screen
Colour	WSVGA Full Colour
Screen Size	180mm (7.0 inch)
Screen Dimensions	155mm x 85mm
Resolution	480*800 pixels
Format	Wide Screen 16:9
Brightness	300 cd/m ²
Backlight	LED
Indicators	DC Power ready

Communications

Remote Access	LAN Ethernet Port
System Interface	RS485
Protocol	Bespoke Specification

Mechanical

External Dimensions	212mm(L) * 130mm(W) * 55mm(D)
Weight	618g
Material	Acrylic
Mounting	Wall Mounted -Optional Surface / Recess Mount Enclosure

Electrical

Supply Voltage	12VDC
Power Requirement	1 Amp (12 watts)
Max Distance From I/O	15 Meters (Using 4 core alarm cable 24awg) Above 15m, install 12v adaptor at TS (230v socket required)

Mother Board

Processor	BCM2837 64bit Quad Core Processor
Operating System	Windows-10 IOT
RAM	1GB RAM
Ethernet	10/100

I/O Ports

USB	4* USB 2.0 ports 1* USB mini
RS485	1* 4 way Terminal Block
Network	1* RJ45 Ethernet
Power	1* 4 way Terminal Block (ABGV 12v)
Card Reader	1* Card Reader slot for Micro SD Card Slot

Environment

Standard	CE
Ambient Temperature	0-40°C
Ambient Humidity	0-90% RH non -condensing
Touch screen lifespan	1 million touches at single point
Back Light MTBF	20,000 Hr (Screen Saver Set 10min)
IP rating	IP23

Standards

Standard	CE
	EN 55030:2012+AC: 2013
	EN 61000-3-2: 2014
	EN 55024: 2010
	ISO7637-2

Console Features

Central Control	Central control of all heating / cooling & Hot water elements
Zones	8 Standard – Optional 16,24,32
Zone Types	Ufh, Radiators, DHW, Schedule Only, E-UFH
Scheduler	7 Day, 5/2 Day 24 Hours,
Multiple Set Point	Max 5 per zone
Typical Operations	Typical operations require one / two keystrokes
Zone Labelling	Zone labelling and edit facility
Senor Lock Out	Facility to lock out button , (public area etc)
4 Master Modes	Mode 1: Timer Mode: Heating & DHW follows schedule; Mode 2: Heating All OFF (Set Back) ; DHW follows schedule; Mode 3: Heating All ON (Set Point); DHW follows schedule; Mode 4: Heating All OFF (Set Back) ; DHW OFF;
Master Season Setting	6 Season setting inc Vacation and custom
Copy & Paste Schedule	Copy schedule between zones
Hot Water Boost	HW key Boosts DHW (1/2/3 Hours timeout)
DHW Temperature Control	DHW temperature time & Temp control & Legionella Routine
Energy Saver Scheduling (BH)	Take advantage of low cost tariff periods
Floor Temperature Limit	Protect specific floor covering (Max & Min Screed Limits)
Optimization	4 Curve Setting including an automatic learning mode
Fault Tolerant Design	Thermostat failure does not interrupt system operation
Watch Dog Timer	Automatic built-in reboot for lockup
Telephone Interface	Vacation Mode
Cooling	Optional Cooling (Individual zone cooling and adj Deadband
Frost Protection	Built in frost protect
Extensive diagnostics	Communications
Eng Password Protection	4 Digit
Historical Log	Select Duration 1-7 Day Individual Zone or all Zone comparison Data Presentation: Graphical Pie Chart or Table Data Format : Percentages or On Time (Hrs)

Console Features – Extra Inc Feature

Remote Access	Remote control over the internet from any location.
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Console Features – Optional Extra

Optional Extra List

Configurable:	Tailored to suite your project
Weather Compensation	Standard or Advanced using Config PV
Configurable PV (0-10v o/p)	Set Up e.g. Multiple Weather Comp, Cooling via ufh,etc
Time Delay & Pump Cycle	Configurable Time On Delay & Overrun & Pump Cycle
Cooling Integration	Individual Zone cooling control with Deadband FCU controls via 01-0v o/p
Electrical Metering	Optional Interface : Electrical Metering Usage.
BMS Interface	BMS Interface via MODBUS Inc Alarm status feedback
PC Link	PC Controls

Please note:

Comeragh Controls employs continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest revision.

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