



ACMC ELECTRONIC TOUCHSCREEN CONTROLLER INSTALLATION AND OPERATING MANUAL

All electrical appliances produced by the Company are guaranteed for one year against faulty materials or workmanship. This applies only if the appliance has been used for purposes in accordance with the instructions provided and has not been connected to an unsuitable electricity supply, or subject to misuse, neglect, damage or modified or repaired by any person not authorised by us. This guarantee is offered to you as an extra benefit and does not affect your legal rights.

The correct electricity supply voltage is shown on the rating label attached to the appliance.

Reasonable care has been taken to ensure that this guide is accurate at the time of printing. In the interest of progress the Company reserve the right to vary specifications from time to time without notice.

1. Introduction

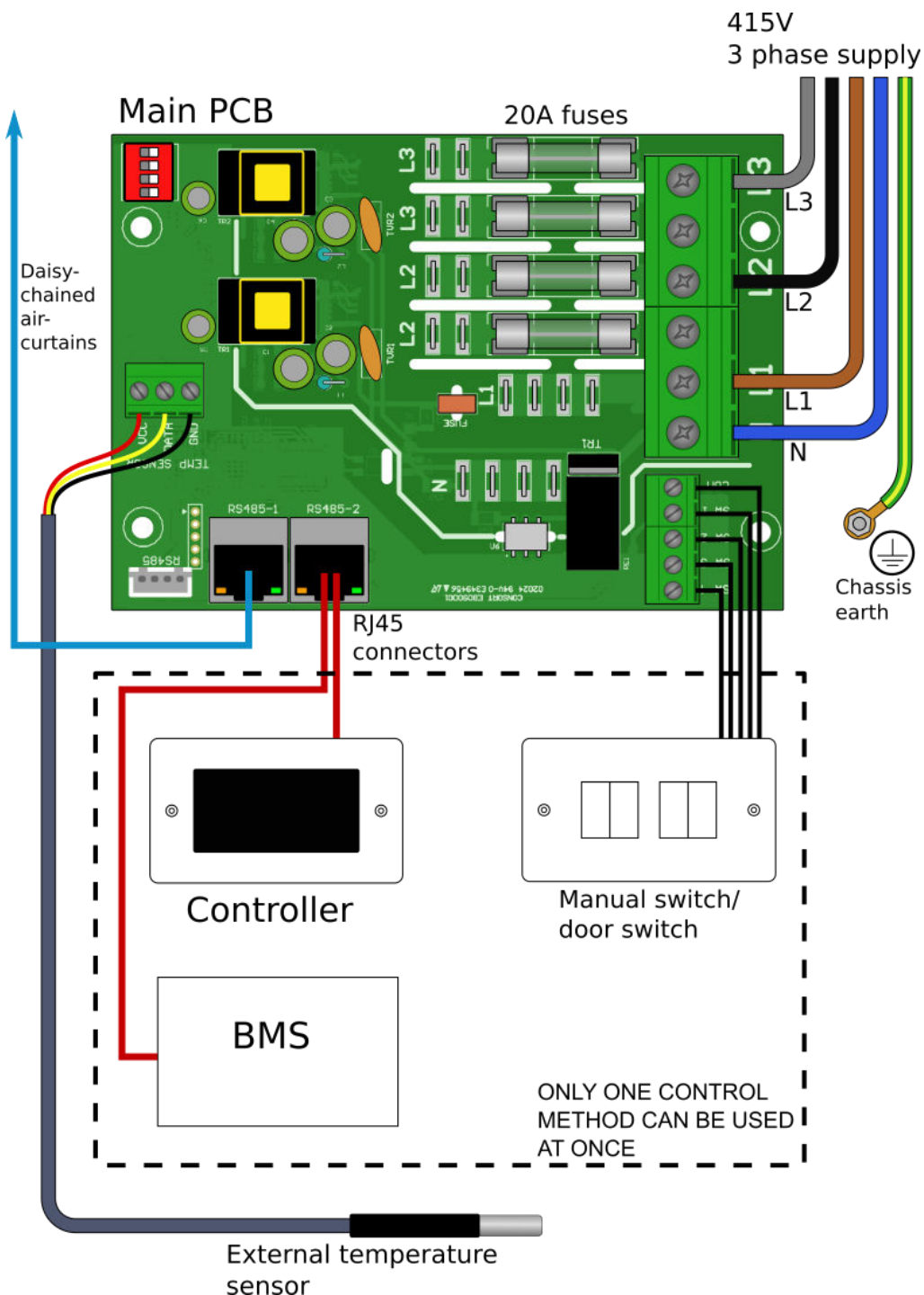
Controller

The touchscreen controllers gives options for 8 fan and 8 heat settings can be mounted up to 50m from the air curtain. Optional BMS control, remote thermostats and door interlocks can be installed.

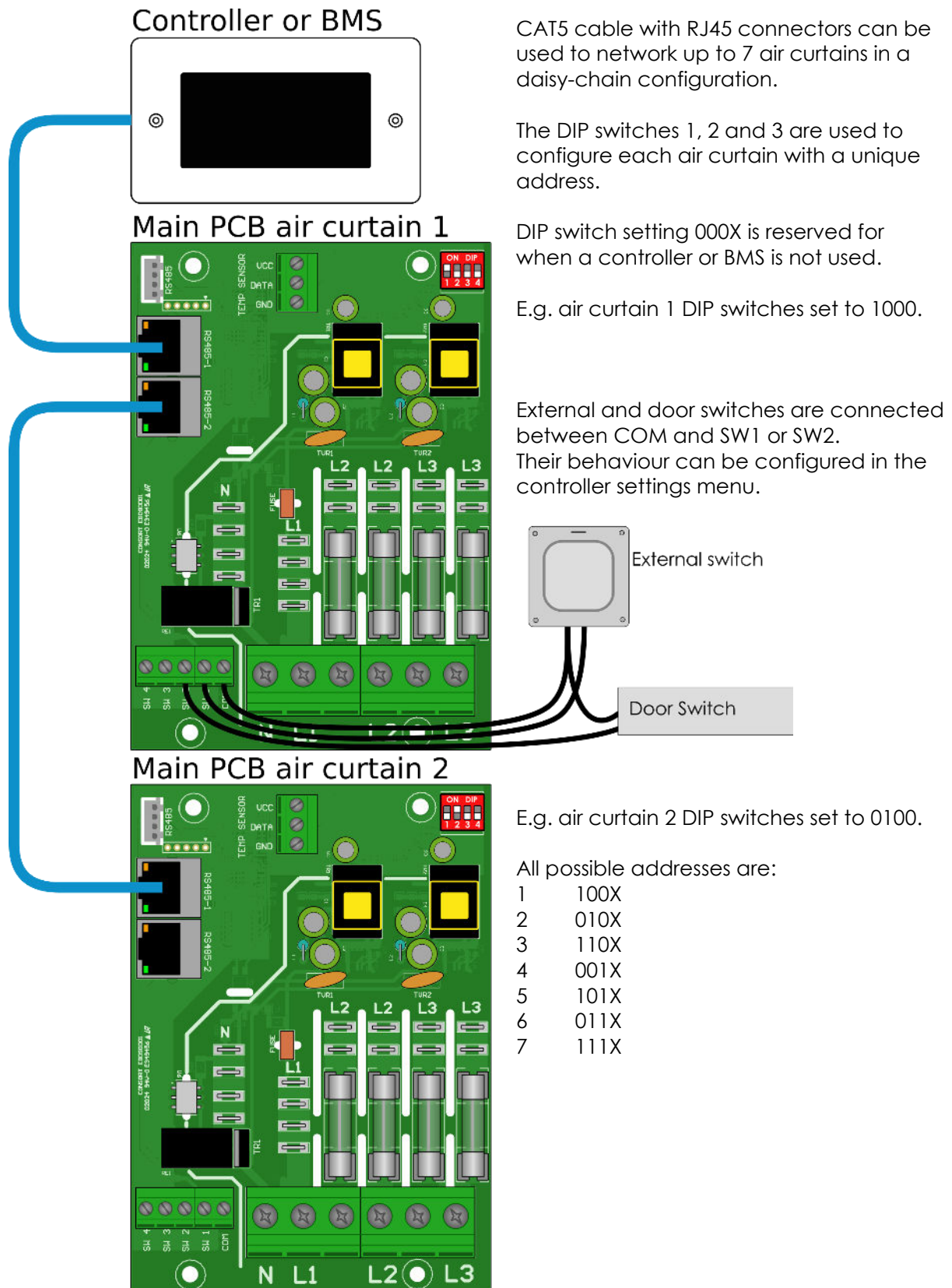
The electronic touch screen controller shown on the front page allows the user to control either a single air curtain, or a network of up to 7 air curtains with the same settings.

The controller is designed to be mounted on a surface double gang back box, and is powered by an RJ45 connection. **The controller will not fit metal or dry lining back box.**

The cable length between the base unit and the controller can be up to 50 metres.

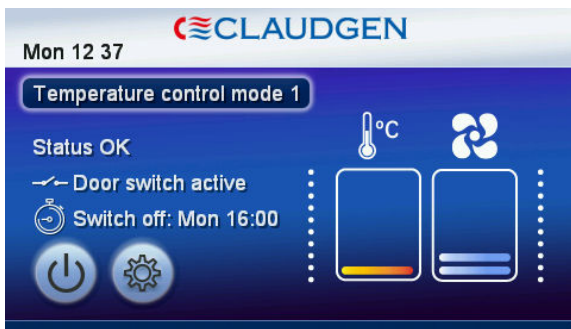


2. Network Wiring



3. Touchscreen Controller Operation

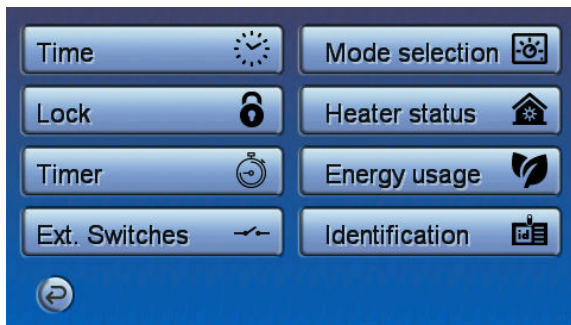
10.1 Home Screen



The home screen provides information about the heater status and all relevant functions.

- Time
- Operating mode
- Heater status
- Door switch status
- Timer status
- Heat output
- Fan speed
- ON / Stand-by button
- Settings menu button

10.2 Settings menu



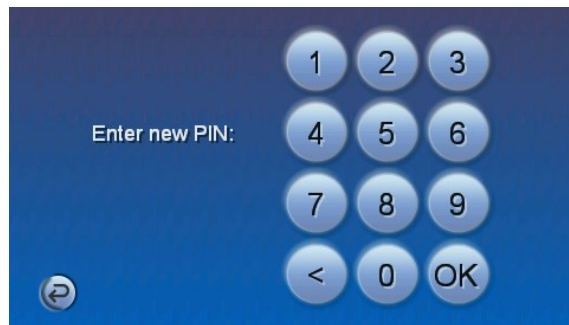
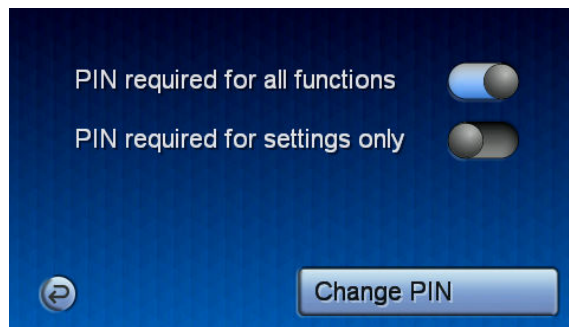
All functions and settings are available from this menu.

10.3 Time



The time can be set using the arrow buttons. A coin battery CR1220 maintains the time when power is interrupted. Time is displayed on the home screen and needs to be set to use the timer function.

10.4 Lock

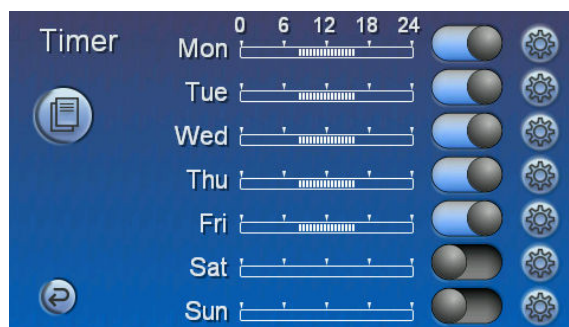


PIN function can be enabled to prevent unwanted operation of the heater or changing the settings.

The PIN can be completely disabled, enabled for settings only or all functions.

The default Pin is set as **1234**, but can be changed using the Change Pin button. If the PIN is forgotten contact Consort technical help.

10.5 Timer

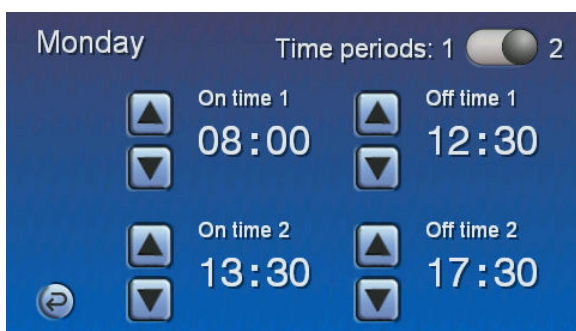


The 7 day timer function allows scheduling automatic switching between on and stand-by. Each day can be individually enabled or disabled. The timer allows up to two periods of operation per day. The white bars indicate when the heater is timed to switch on.

Use the settings buttons to set up the time for each day (see next page), and the copy button to copy settings from one day to another.

10. Touchscreen Controller Operation - cont.

10.6 Timer - time schedule

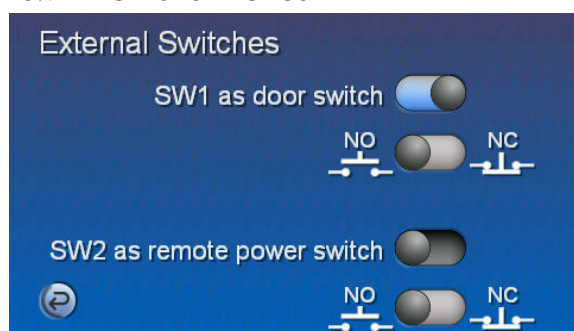


There are 2 timer periods for each day available. Tapping the slider in the top right corner will change between 1 or 2 time periods.

The times for the first time periods are on the top of the screen, the times for the second timer period are on the bottom of the screen. Times can be adjusted in 15 minute intervals using the buttons.

When the timer is active, an icon will appear on the home screen giving information about the next switch time.

10.7 External switches

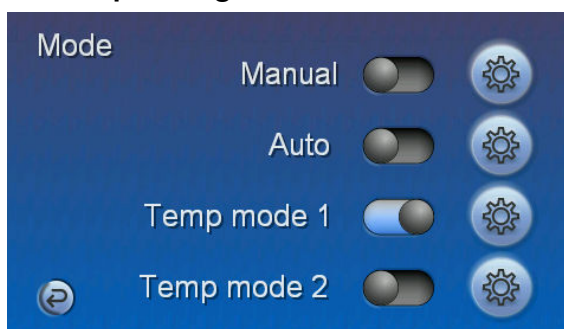


There is a provision for 2 remote switches that can be wired into the air curtain with. The switches must be voltage free type, NO or NC configuration.

SW1 can be connected to a door switch or occupancy sensor installed in the door area. When the function is activated, the door switch will enable the air curtain when the door is open and disable it when the door is closed. The second slider is used to configure the system for the correct switch type. When the air curtain is disabled by the door switch, the heater will operate at a low fan speed. This will allow for a fast start-up when the door is opened. When SW1 is active, the home screen will show the status of the door switch.

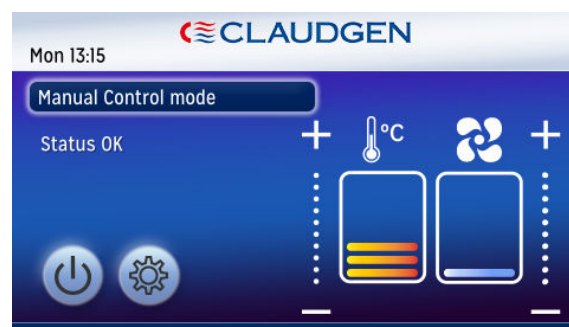
SW2 is intended for a remote switch that can be used to disable the air curtain from a remote location. Usually this would be a simple BMS or external timer connection. Once disabled using remote switch the air curtain can't be controlled by the touchscreen controller and will remain disabled until enabled remotely.

10.8 Operating Mode selection

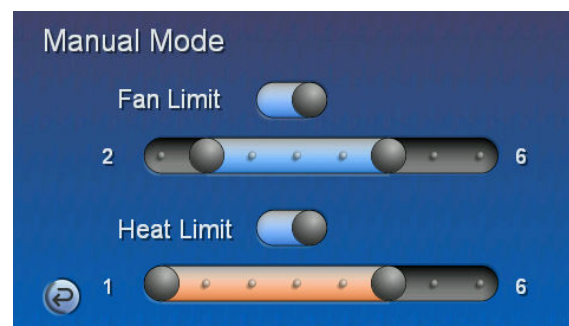


One of four operating modes can be selected. Each mode uses a different method of selecting heat and fan settings when the air curtain is not in stand-by mode. Use the settings button to configure each mode.

10.9 Manual Mode



In manual mode user can select required fan and heat output by tapping + or - symbols on the home screen next to the fan and heat bars.



There are 8 fan speeds and 8 heat settings available. It is possible to set maximum and minimum limits for fan speed and heat output. Once limits are set and functions activated, only limited fan speed and heat output will be available on home screen when in manual mode.

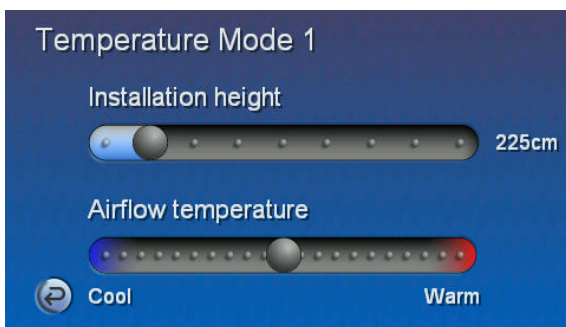
10. Touchscreen Controller Operation - cont.

10.10 Automatic Mode



Automatic Mode is the best choice for easy to set-up efficiency and comfort. Set the height by moving slider to the required position. The air curtain will run at optimum fan speed and heat output based on the inlet temperature.

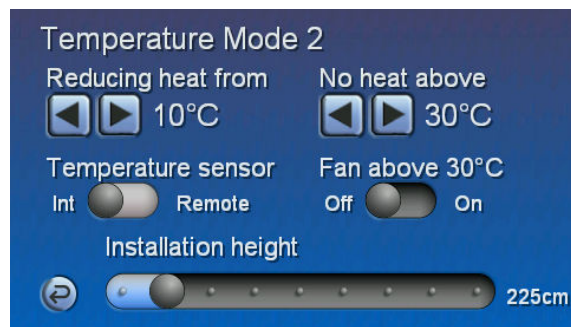
10.11 Temperature Mode 1



Temperature Mode 1 is very similar to Automatic Mode, with the addition of having an option for adjusting the airflow temperature. With the airflow temperature set in the middle of the scale, this is equivalent to Automatic Mode.

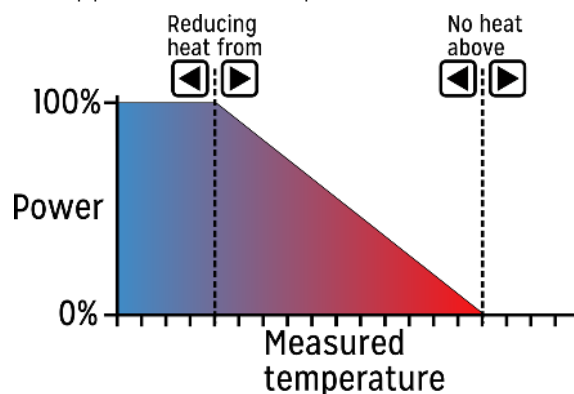
In certain situations, when required, airflow can be increased or decreased by increasing or decreasing the set installation height. Using a higher setting for the installation height will make the air curtain less energy efficient.

10.12 Temperature Mode 2



This operating mode is suitable for situations where the heater is used to maintain the room temperature or where the requirement is to adjust the heat output based on the indoor/outdoor temperature.

This operating mode can use either the internal or supplied external temperature sensor.



The temperature on the left defines the starting point below which the air curtain uses full power. The temperature on the right defines the point above which the air curtain doesn't produce any heat. As the measured temperature rises the heat output is gradually reduced until heater doesn't produce any heat.

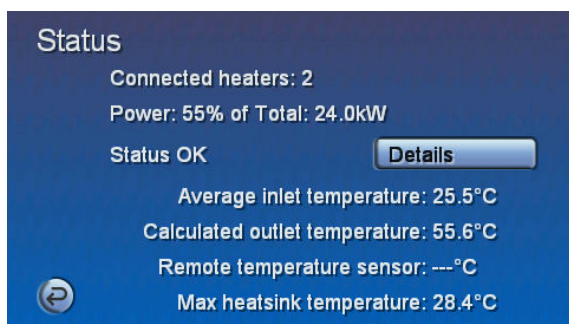
Using the internal temperature, this mode can be used to maintain room temperature.

With remote sensor installed outside, this mode can be used to compensate for external temperature.

There is also an option to select fan function after the heater stops producing heat. Fan can be set to turn off after the heater stops producing heat or run all the time.

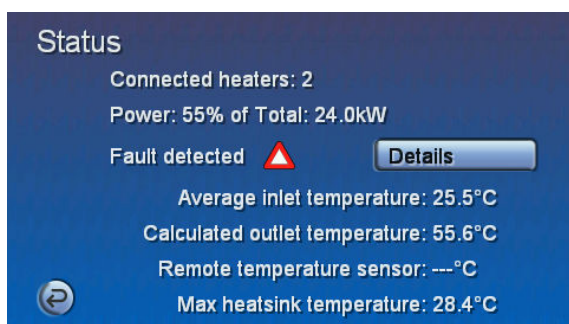
11. Touchscreen Controller Operation - cont.

10.13 Heater status

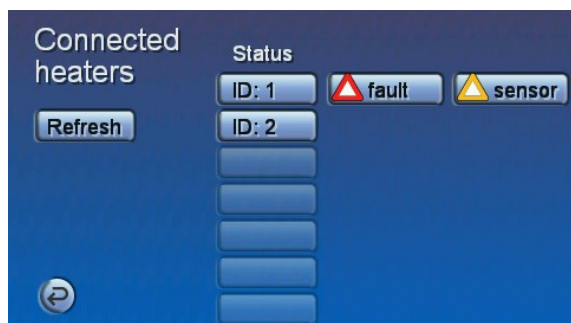


The Status screen provides an overview of values from all connected heaters. The heaters need to be run before some of the values can be calculated.

In the event of a fault a red warning triangle is displayed:



More details are available when tapping the details button. The detailed status screens are primarily for installers or engineers to help with installation or fault diagnostics.

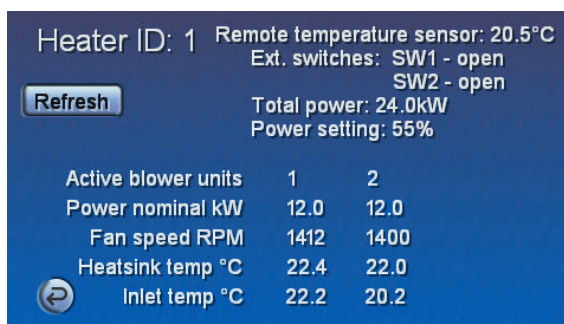


The connected heaters screen shows all of the currently connected heaters, in order of address ID. Heaters are connected when the controller is first powered up. In order to connect to newly powered heaters, press Refresh to search for heaters.

For each connected heater, up to 3 detailed status screens are available. These are general status, faults and sensor screens.

The links to the faults and sensor screens are hidden when no faults have been identified.

10.13 Heater status - cont.

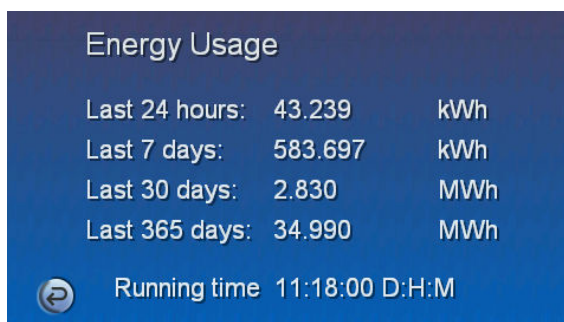


The general status screen shows details about the heater and all of the internal blower units. The heater needs to be run before some of the values can be calculated.

The faults screen can provide detailed diagnostics of faults for each internal blower unit.

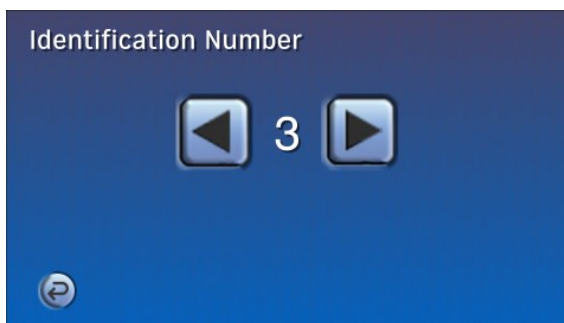
The sensor screen shows the status of the temperature sensors.

10.14 Energy usage



The energy usage screen provides information related to energy used from the day the heater was installed. The values are calculated based 3PH 400V and so will differ from actual energy usage when mains voltage is lower or higher.

10.15 Identification



User can set ID number for controller identification. This number is shown on the left hand corner of the home screen. This feature is useful in situation where there are more than one controller side by side.

Declaration Of Conformity

In accordance with UK Government Guidance.
WE HEREBY CERTIFY THAT THE APPLIANCES DETAILED HEREON HAVE BEEN
INSPECTED AND TESTED, AND CONFORM TO THE REQUIREMENTS OF THE
FOLLOWING UK STATUTORY INSTRUMENTS WHERE APPLICABLE:

Electrical Equipment (Safety) Regulations 2016 SI. 2016 1101

Electromagnetic Compatibility Regulations 2016 SI. 2016 No. 1091

Radio Equipment Regulations 2017 SI. 2017 No. 1206

The Ecodesign for Energy Related Products and Energy Information (Amendment) (EU Exit) Regulations 2019. SI. 2010 2617

The Restriction of use of Certain Hazardous Substances. SI. 2012 No. 3032

The Waste Electrical & Electronic Equipment Regulations 2013. SI. 2013 No. 3113

Security Requirements for 'Connectable Products' PTSI ACT 2022

The Product Security and Telecommunications Infrastructure (Security Requirements for Relevant Connectable Products) Regulations 2023

Transposed standards used:

- BSEN61000-6-3:2007+A1:2011
- ENIEC6100-6-1:2019
- ENIEC61000-3-2:2019
- EN60000-3-3:2013+A1:2019
- EN 62368-1:2014+A11:2017
- ETSI BS EN 303645
- BS EN 55014 (2016)
- BS EN 301489.1 & .3
- BS EN 300220 .1 & .2
- BS EN 60730.2.9
- BS EN 60335.1 (2012)
- BS EN 60335.2.30 (2009)
- EN 50663 (2017)
- EN 60730-2-9 (2010)
- EN 60730-1 (2011)
- ETSI EN 300 220-1 V3.1.1 (2017-02)
- ETSI EN 300 220-2 V3.2.1 (2018-06)
- ETSI EN 301 489-1 V2.2.2 (2019)
- ETSI EN 301 489-3 V2.1.1 (2019)

PART NUMBER AND DESCRIPTION OF APPLIANCE:

NAME OF RESPONSIBLE PERSON:

POSITION:

DATE:

ACMC TOUCHSCREEN CONTROLLER

DAVID O'SULLIVAN

OPERATIONS MANAGER

24/06/24



FM 12671

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