



CZone 2.0 Quick Start Guide

V1.1



CZONE 2.0 INTRODUCTION

The CZone 2.0 application serves as the main user interface for all electrical systems on a CZone digital switching network, from within the application, each system can be controlled and monitored. CZone 2.0 runs on various platforms including dedicated CZone Displays and iPad. Below is a high level diagram of the various upper level pages available. For information on each of these pages, refer to the additional information on each of these pages of this document.



Favourites



Modes



Control



Monitoring



Alarms



AC Mains



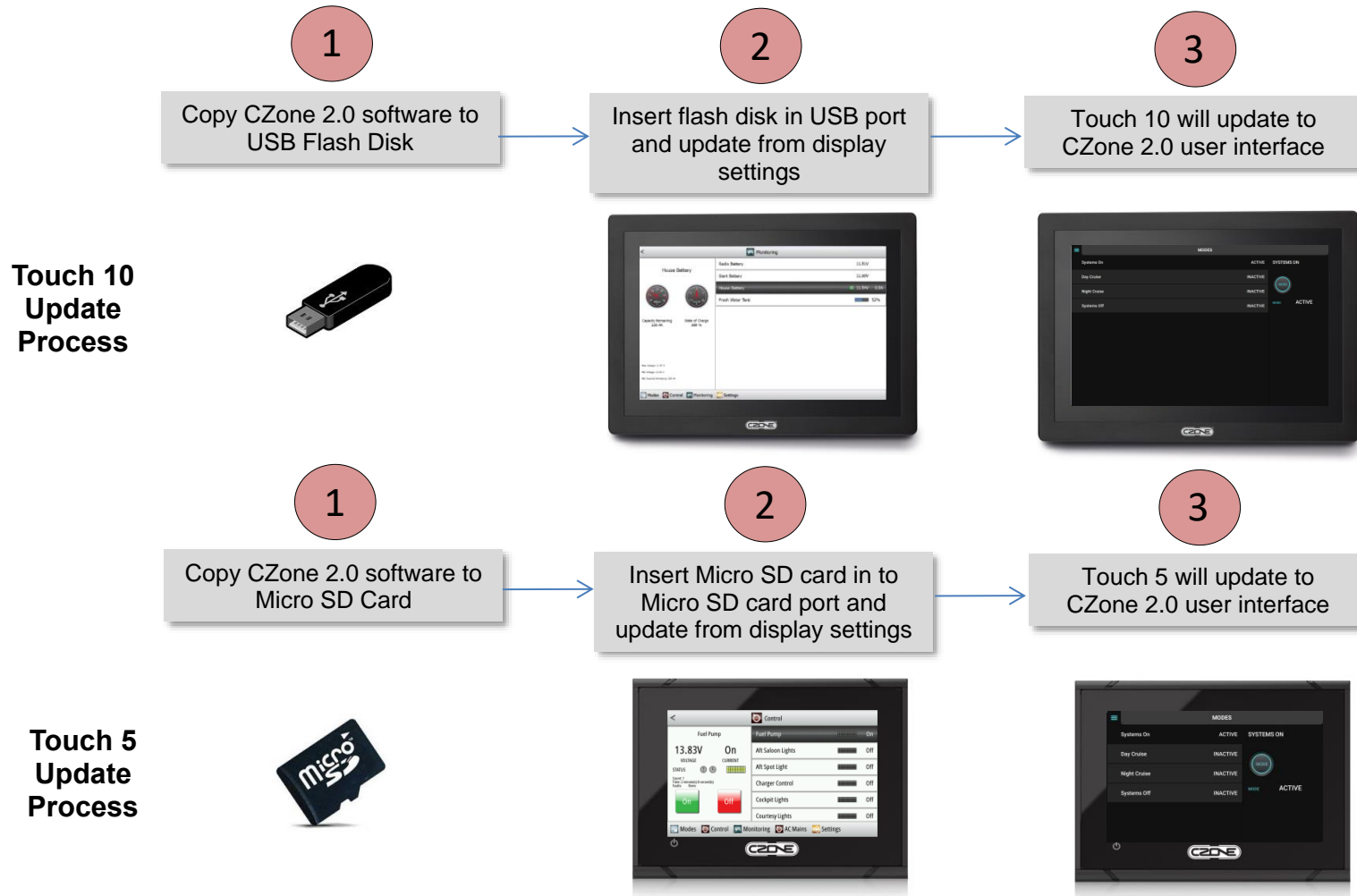
Inverter/Charger



Climate

UPDATING CZONE DISPLAYS

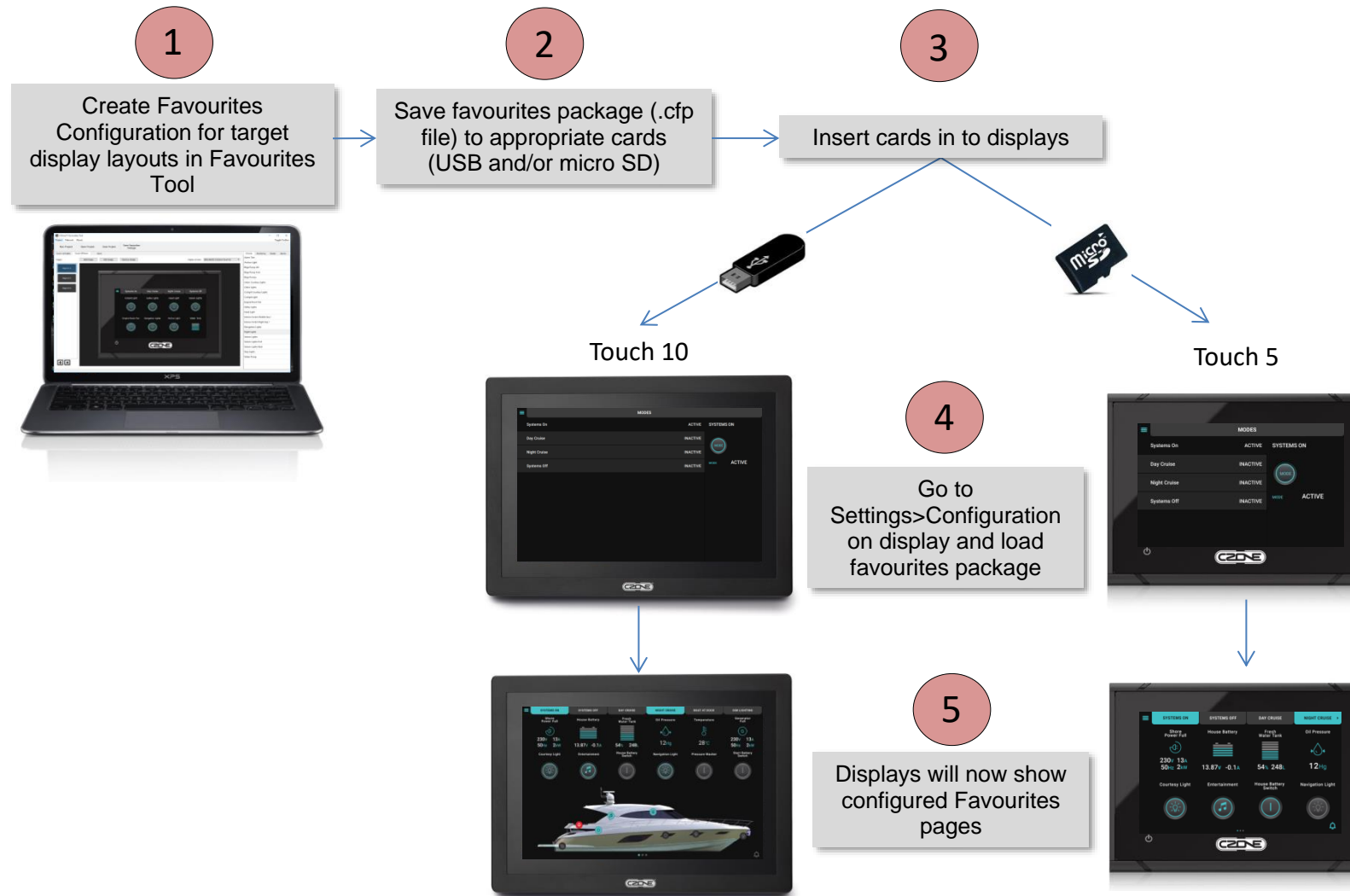
The CZone 2.0 software is available for CZone Touch 5 & Touch 10 Displays. The software (v6.12.4.0 or newer) can be downloaded from www.downloads.czone.net. The basic process for updating displays on existing CZone systems is shown below



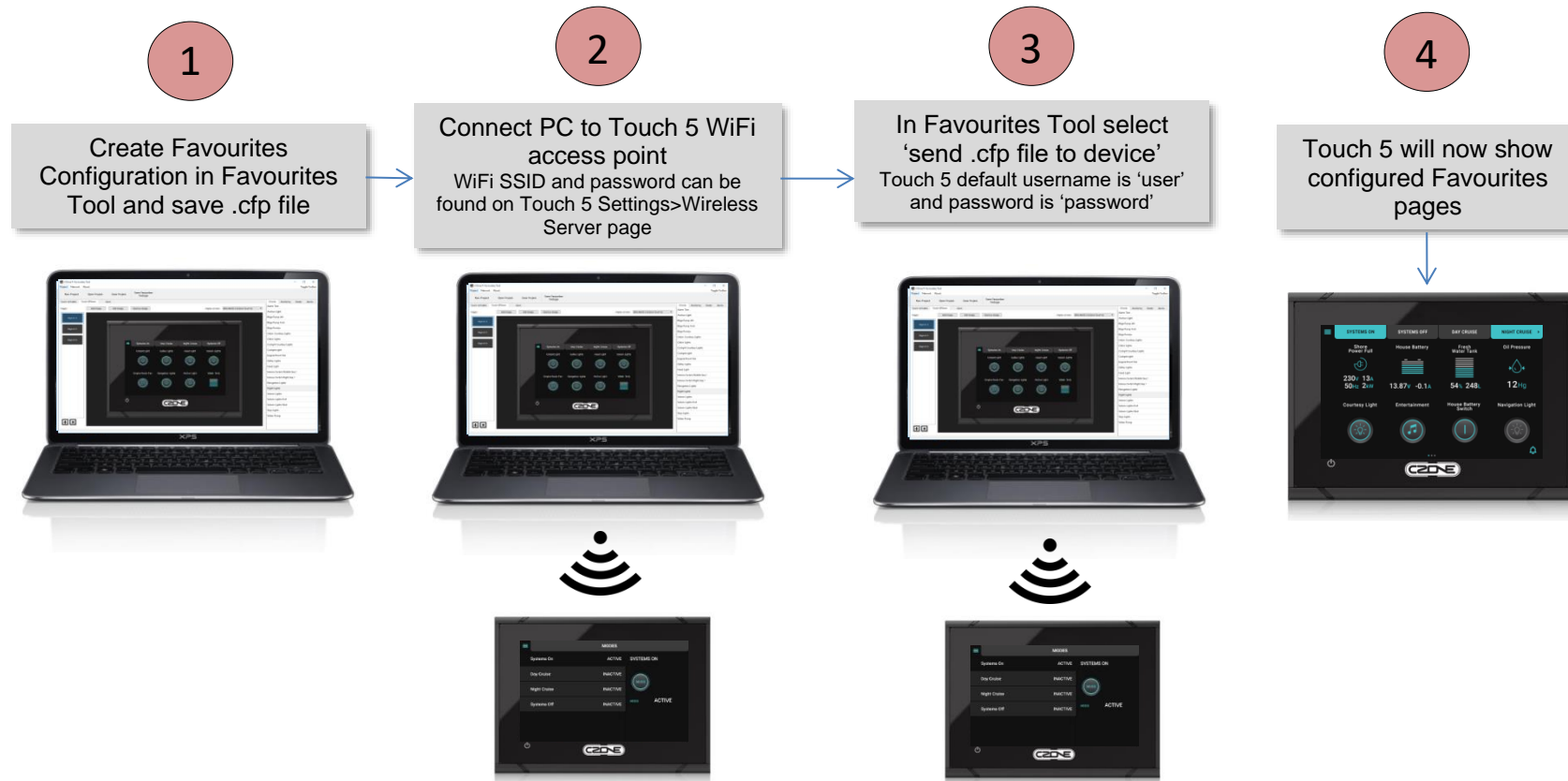
CONFIGURING FAVOURITES PAGE

As the favourites pages are new to CZone 2.0, the pages will not appear on updated displays until configured. The favourites pages are configured using the CZone Favourites Tool, which can also be downloaded from www.downloads.czone.net. To start a favourites configuration you will need a copy of the systems configuration (.zcf) file. Once the configuration is complete there are 2 methods to upload the configuration to the displays

1. TOUCH 5 & TOUCH 10 FAVOURITES CONFIGURATION VIA FLASH DISK:

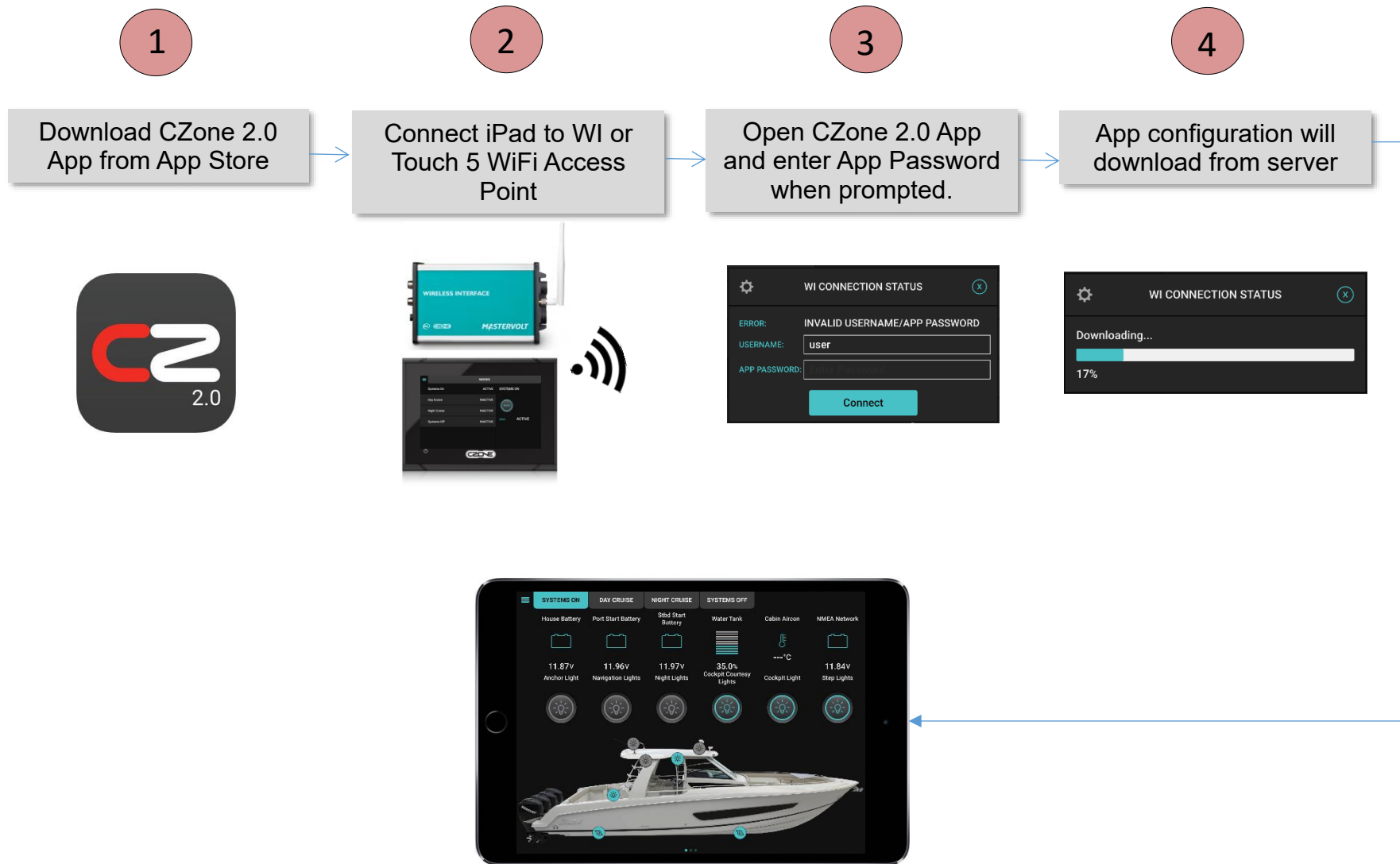


2. TOUCH 5 FAVOURITES CONFIGURATION VIA WIFI:



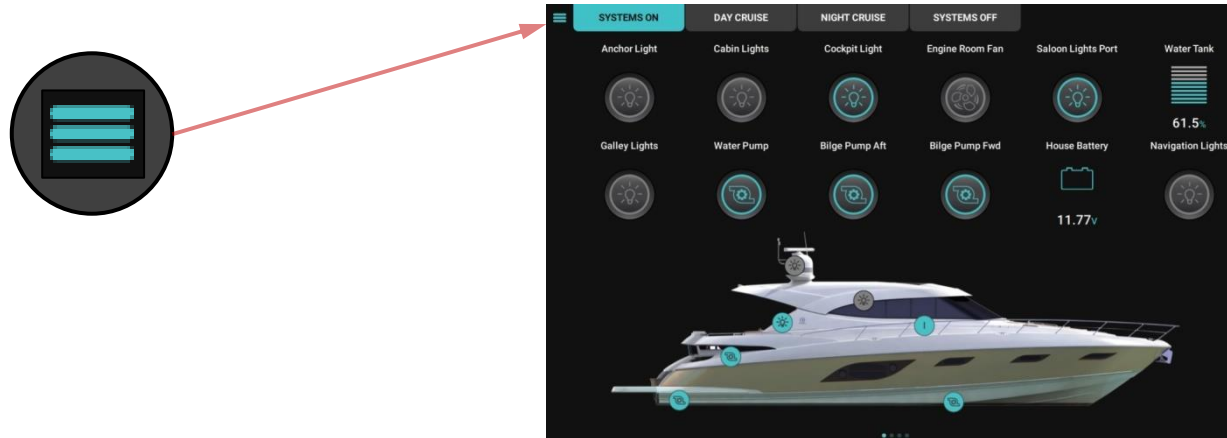
CZONE 2.0 IPAD APP CONFIGURATION

The CZone 2.0 iPad app is free to download in the App Store. The app will download the favourites configuration wirelessly from a CZone server on either the Touch 5 or Wireless Interface.

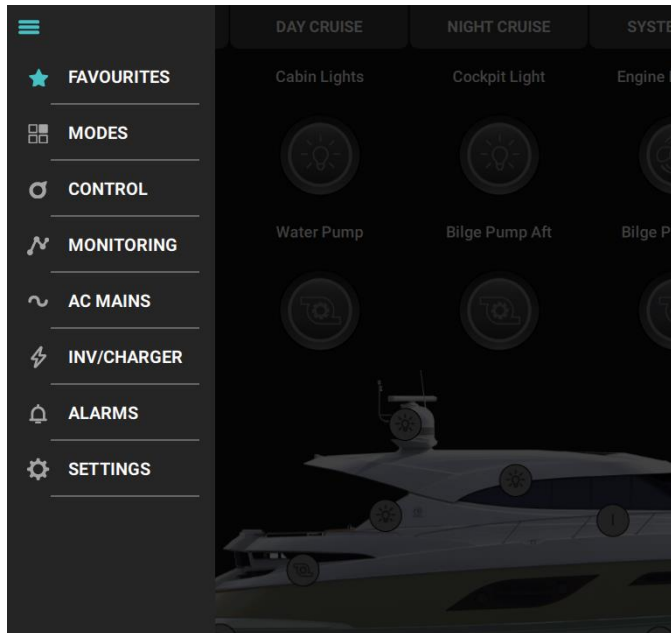


THE MENU

Tapping the menu in the top left hand corner will bring up the Menu:



You can then access the full list of pages from here:



FAVOURITES PAGES

Navigation of the CZone app is designed so the most important information and controls are easily accessible by the user. The Favourites pages are where all these common items are pre-configured to appear by the user.

Modes Bar
Switch multiple circuits
with a single button press

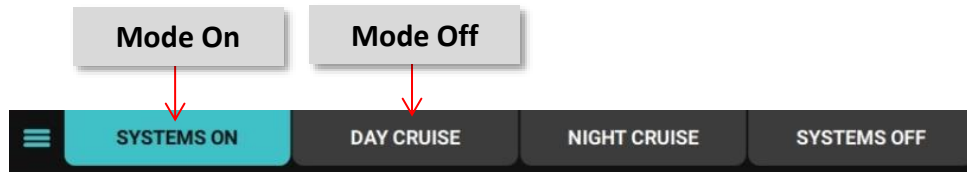
Meters
Live monitoring of systems
including DC & AC power,
fluid levels, temperatures,
pressure



Switches
Switch individual circuits

Mimic
Visual feedback of systems
in operation and alarms

Modes Bar



With Modes, groups of circuits can be switched with a single touch. The Modes bar is accessible on all Favourites Pages and can be swiped left to right for more Modes off screen.

1. To activate a Mode hold the desired Mode for half a second, while the button is illuminating white
2. The Mode button will change to blue indicating the Mode is now active

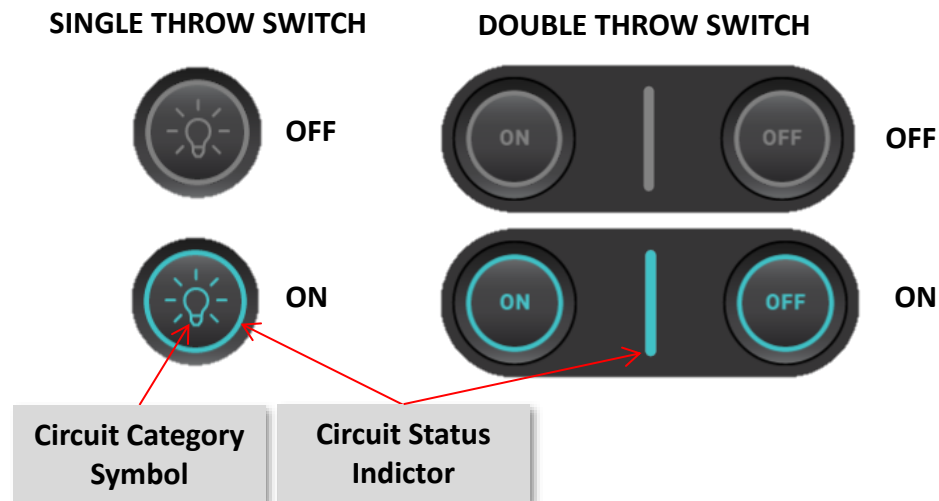
Note: In most cases, only 1 Mode can be selected at a time. If more than 1 Mode is selected then these Modes are in different Mode groups

Switches

Switches on the favourites pages are generally for switching individual circuits, there are 2 main switch types – single throw and double throw.

1. The single throw switch is activated by pressing the button once to turn the circuit ON and then pressing again to turn the circuit OFF. For circuits configured as momentary the button should be held down to turn the circuit ON and then released to turn the circuit OFF.
2. The double throw switch function is the same but the ON and OFF buttons are separated. The double throw switches may also include separate functions on each button i.e. controlling reversible motors (Fwd/Reverse, Up/Down etc) or controlling generators (Start/Stop).

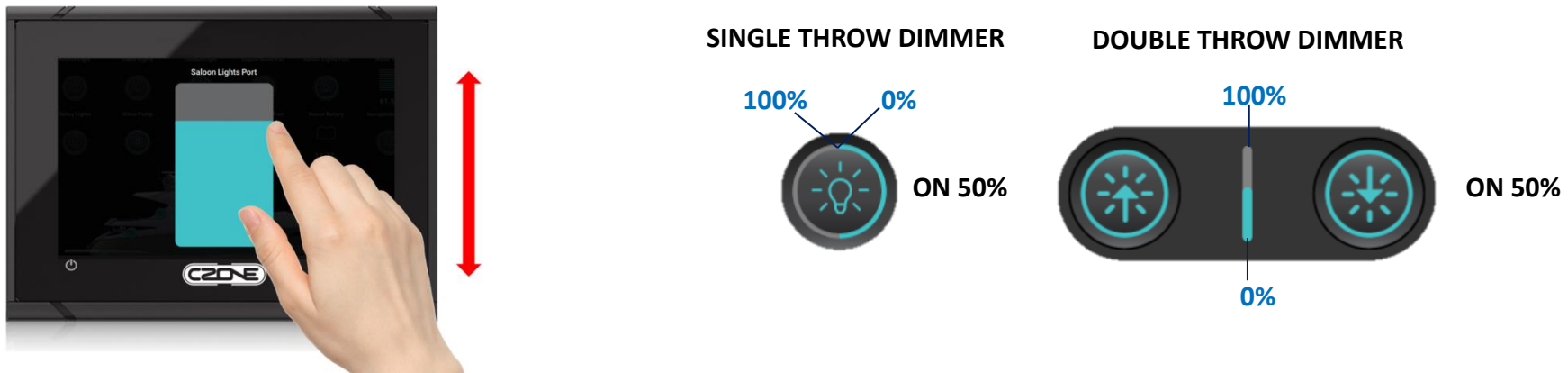
Circuit states (ON/OFF or %) are shown via the switches status indicator. The ON/OFF states are shown below for each switch type



Dimmable Switches

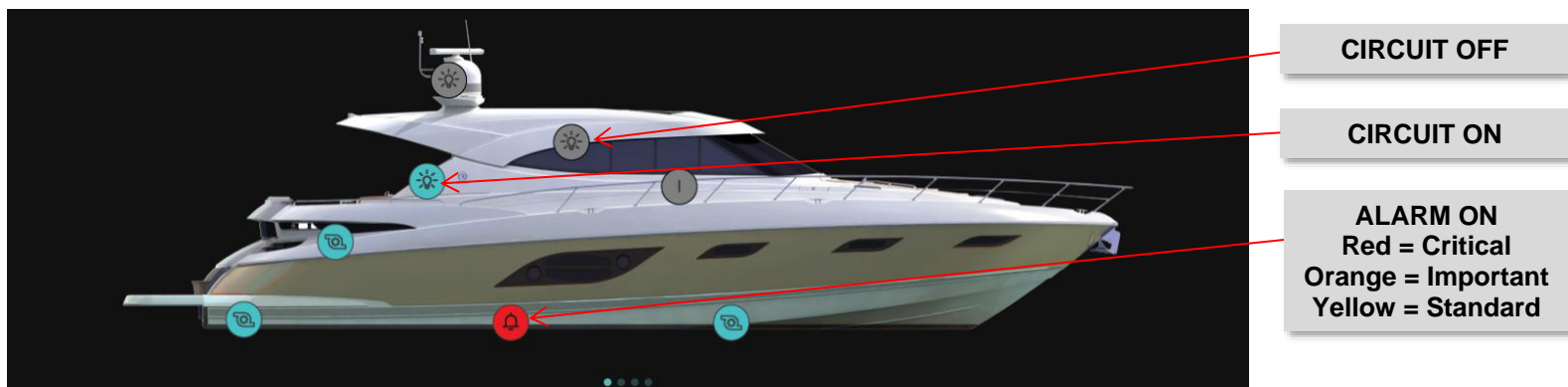
For lights that have dimming functionality, the switch operation is different. When any dimmable button is held down a full page dim slider will open. Hold and slide your finger through to the desired level and then press outside the box to exit dim mode. The level indicator will now show the current output level as a % of the status indicator bar.

Note: The light output will change in real time when level adjustments are made from the dim slider.

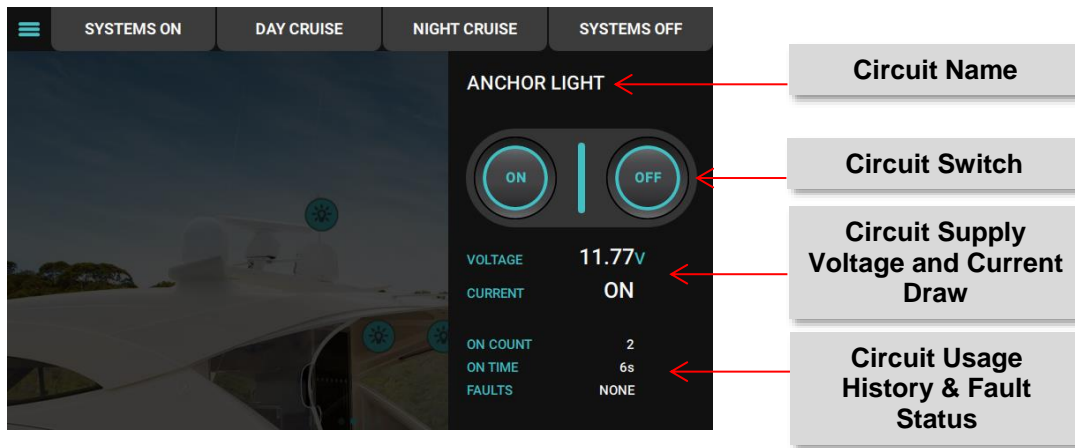


Mimic

Mimics are useful for providing the user a visual representation of systems on a vessel/vehicle. Circuits can be easily identified by their location and category symbol (i.e. lights, pumps, fans etc). By default, mimics will show circuits in the ON and OFF state, with the ON state illuminated. Some mimics will only show circuits in the ON state. Alarms for critical systems such as bilge pumps will appear when activated, and highlighted by the severity of the alarm.

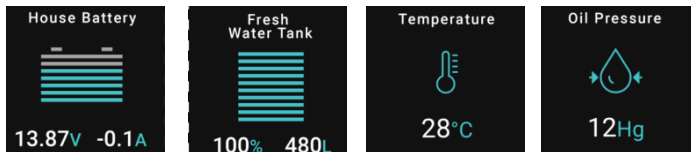


To get more information about a circuit or alarm on a mimic, press the desired indicator and a slide out panel will appear. Circuits can be controlled directly from this panel and associated monitoring data will be presented.

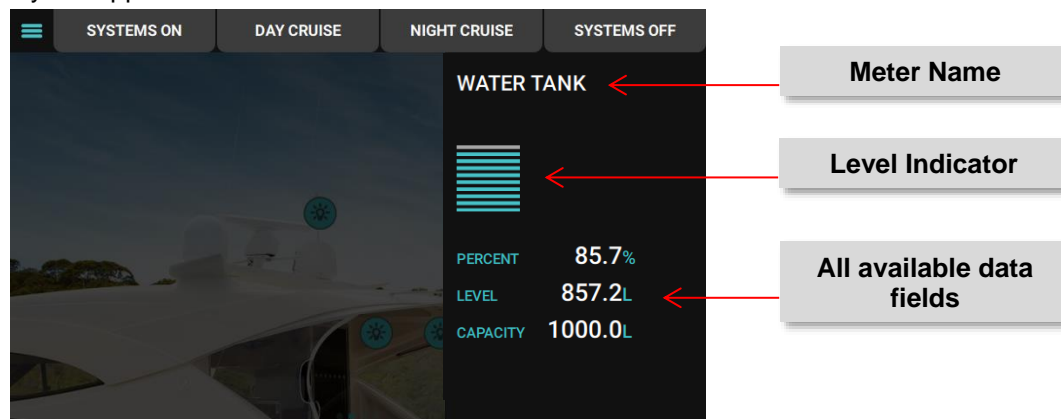


Meters

There are various meter types presented on the favourites page. Some common metering inputs are shown below:



To get more more information about specific Meters, press the required meter and a slide out will appear. If there are any additional fields monitored by the system they will appear here:



MODES PAGE

Modes are intended to make operation of a vessel/vehicle as simple as possible, by controlling multiple circuits with a single touch based on the situation. i.e. fishing, day cruising, night cruising or entertainment. The Modes page is where all configured Modes are listed. An example is shown below:

Modes List

A complete list of Modes on the configured system and their current state (active or inactive).

Press desired Mode to open up controls on the control pane

MODES

Systems On	ACTIVE	SYSTEMS ON
Day Cruise	INACTIVE	<div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 2px solid #3498db; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">MODE</div> <div style="margin: 0 10px;">←</div> </div> <div style="display: flex; justify-content: space-around; width: 100%;"> MODE ACTIVE </div>
Night Cruise	INACTIVE	
Systems Off	INACTIVE	

Control Pane

Shows switch and state of selected Mode.

Press the switch to activate Mode

Note: Before activating Modes it is important to understand how they are configured and what systems they are controlling, if you have purchased a boat or vehicle with CZone refer to the user documentation. Below is an example which summarises the effect that selecting a Mode has on the vessels/vehicles systems:

	Systems On	Day Cruise	Night Cruise	Systems Off
Anchor Light	Off	Off	On	Off
Backlight Zone 1	On	On	On (50.0%)	Off
Bilge Pump Aft	On	Off	Off	Off
Bilge Pump Fwd	On	Off	Off	Off
Cabin Courtesy Lights	On	On	On (10.0%)	Off Timer: When turned Off, keep On for 3.0 seconds.
Cabin Lights	Off	Off	On (10.0%)	Off
Cockpit Courtesy Lights	On	On	On (10.0%)	Off Timer: When turned Off, keep On for 3.0 seconds.
Cockpit Light	On	Off	On (10.0%)	Off
Engine Room Fan	Off	On	Off	Off

CONTROL PAGE

The Control page is where all configured circuits are listed. An example is shown below:

Control List
A complete list of circuits on the configured system. Press desired circuit to open up controls on control pane

Filter Pane
Select a circuit category to filter down circuit list
Touch 5 filter pane slides out by pressing filter button

CONTROL			
Anchor Light	<div></div>	ON	ALL
Bilge Pump Aft	<div></div>	3.0 A	IN OPERATION
Bilge Pump Fwd	<div></div>	5.1 A	PUMPS
Cabin Courtesy Lights	<div></div>	ON	LIGHTING
Cabin Lights	<div></div>	OFF	POWER
Cockpit Courtesy Lights	<div></div>	4.9 A	NAVIGATION
Cockpit Light	<div></div>	1.8 A	FANS/VENTILATION
Engine Room Fan	<div></div>	OFF	HOUSE/HABITAT
Galley Lights	<div></div>	OFF	VESSEL MANAGEMENT
Head Light	<div></div>	OFF	

Control Pane

Circuit Name
ANCHOR LIGHT

Circuit Switch

ON OFF

Circuit Supply Voltage and Current Value
VOLTAGE 13.86V
CURRENT ON

Circuit Usage History & Fault Status
ON COUNT 3
ON TIME 1h 19m 6s
FAULTS NONE

Status Indicator
Shown as On/Off or a % of input voltage

On

On 50%

Off

Current Value
Shown in Amps if circuit is On

MONITORING PAGE

The Monitoring page is where all configured meters are listed. An example is shown below:

The screenshot shows the 'MONITORING' page with a list of meters and a detailed view for the 'HOUSE BATTERY'.

Monitoring List
A complete list of meters on the configured system. Press desired meter to open up associated data on monitoring pane

Filter Pane
Select a monitoring category to filter down list
Touch 5 filter pane slides out by pressing filter button

Monitoring Pane

Meter Name

Meter Name	Value	Category
Port Start Battery	13.82 V	ALL
Stbd Start Battery	13.80 V	DC MONITORING
House Battery	13.74 V	AC MONITORING
NMEA Network	13.89 V	TANKS
Genset 1	230 V 6.8 A	
Genset 2	230 V 13 A	
Inverter	230 V 14 A	
Shore Power 1	230 V 14 A	
Water Tank	87.4 %	

Full Data View
Lists all data fields monitored by the system

Data history
Mins and max values for DC and AC power

Quick Data View
Shows 2 data fields for each meter

HOUSE BATTERY

VOLTAGE 13.74V

VOLTAGE MIN 13.70V

VOLTAGE MAX 13.89V

ALARMS PAGE

The Alarms page is where all active and historic alarms are listed. An example is shown below:

Alarm List
A complete list of alarms active on the system. Press desired alarm to open up alarm details on alarm pane. Filter by History to see alarm history

Filter Pane
Select an alarm category to filter down list
Touch 5 filter pane slides out by pressing filter button

Alarm Pane

Alarm Name

Alarm Details

Date/Time
Shown for historic alarms

Alarm Severity
Red = Critical
Orange = Important
Yellow = Standard
Blue = Warning

ALARMS		
Blown Fuse - Cockpit Courtesy Lights		ALL
Low Level - Water Tank		CRITICAL
Low Level - Water Tank		IMPORTANT
Low Level - Water Tank		STANDARD
Low Level - Water Tank		WARNING
Blown Fuse - Cabin Courtesy Lights		HISTORY
Blown Fuse - Cabin Courtesy Lights		
Manual Bypass - Cabin Courtesy Lights		
Blown Fuse - Cabin Courtesy Lights		
Low Level - Water Tank		

COCKPIT COURTESY LIGHTS

DEVICE COI 01
NAME BLOWN FUSE
SEVERITY STANDARD
STATE
ENABLED Thu Oct 19 16:35:22 2017

Note: Critical, Important and Standard alarms will also popup an alarm window as shown below. Press acknowledge to close the popup:

COCKPIT COURTESY LIGHTS

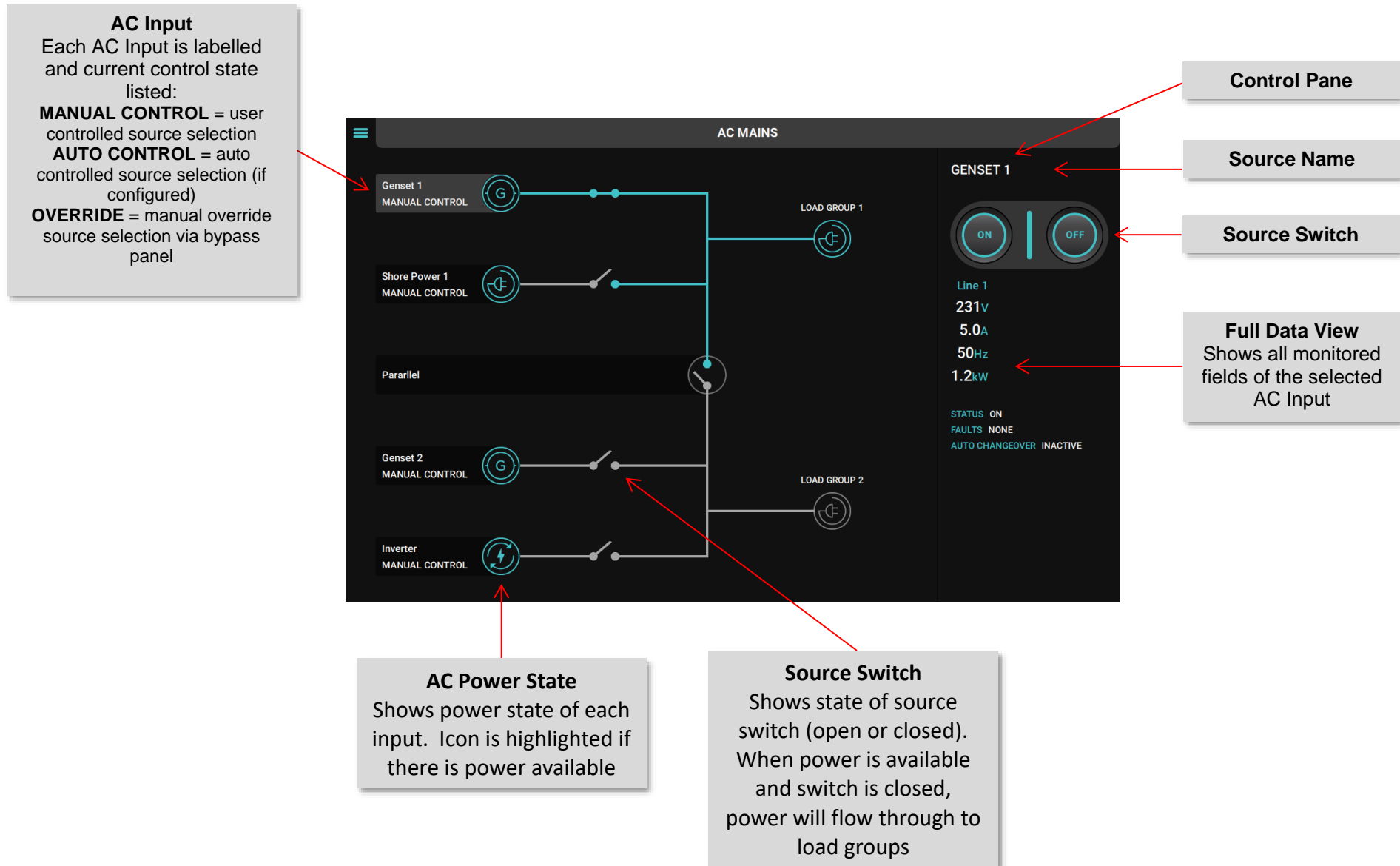
DEVICE COI 01
NAME BLOWN FUSE
SEVERITY STANDARD

The backup fuse for this load is blown in the module. Remove cover, check fuse and replace as necessary.

Acknowledge

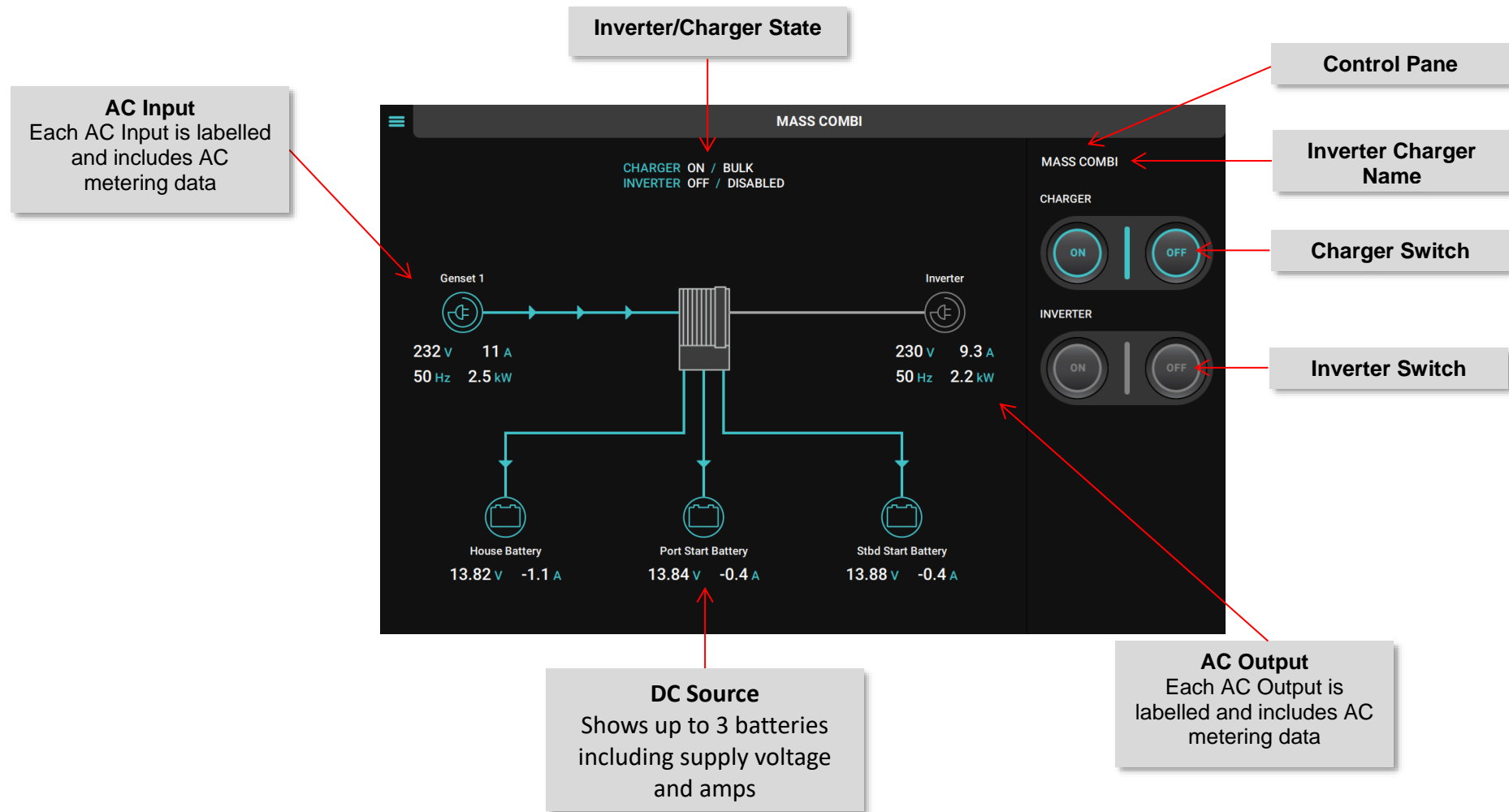
AC MAINS PAGE

The AC Mains page will appear if an AC Mains Interface (ACMI) is configured on the system. It provides a graphical interface for directing power between AC mains sources e.g. on board generators and shore power connections and AC Loads e.g. air conditioners and power outlets. An example with 4 AC Inputs and 2 AC Outputs is shown below:



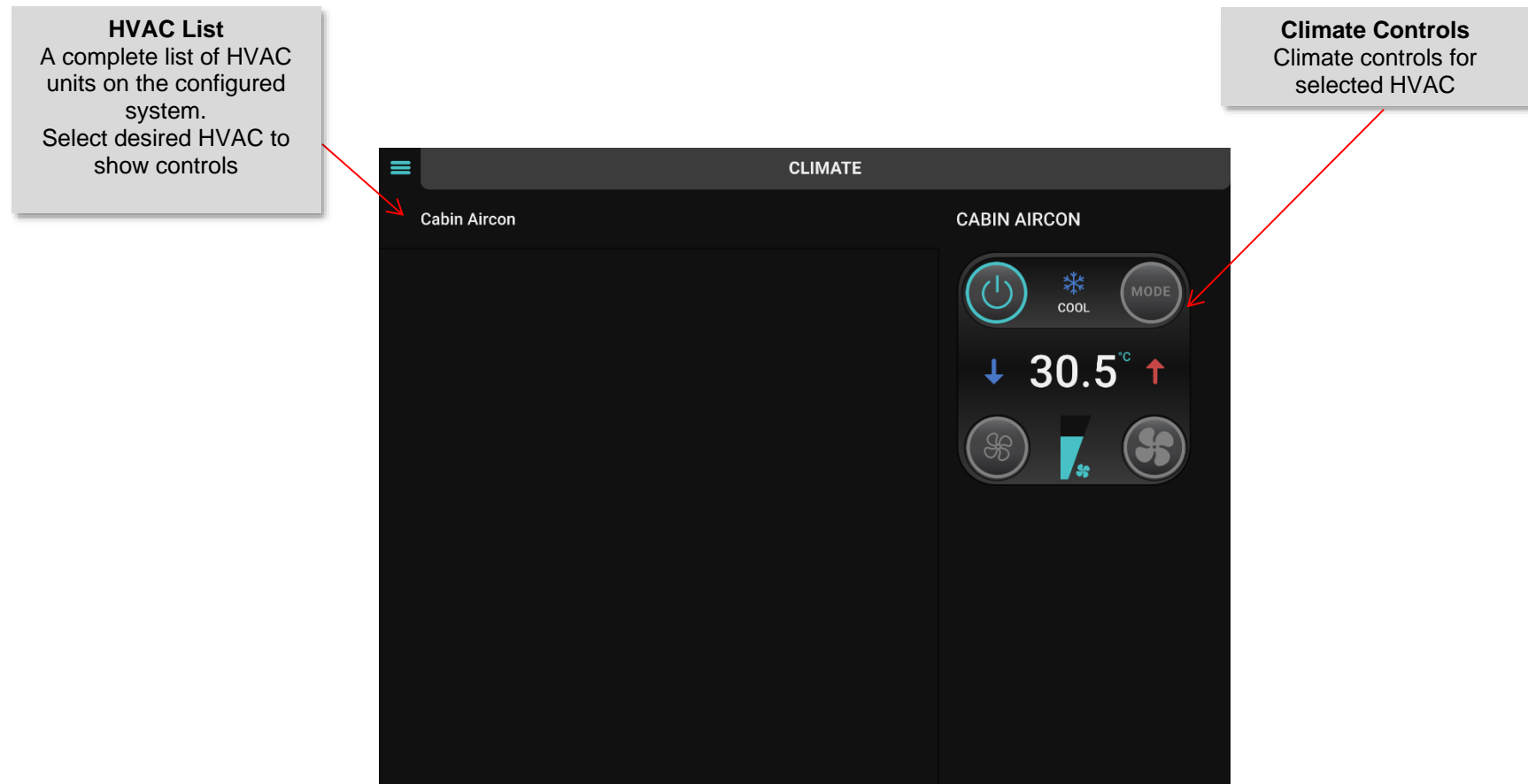
INVERTER CHARGER PAGE

The Inverter Charge page will appear if any Mastervolt Chargers, Inverters or Inverter/Chargers are configured on the system. It provides a graphical interface for monitoring power flow from AC to DC charging systems, and DC to AC inverter systems. Swipe screen from left to right to view additional inverter chargers if they are configured. An example of an Inverter/Charger is shown below:

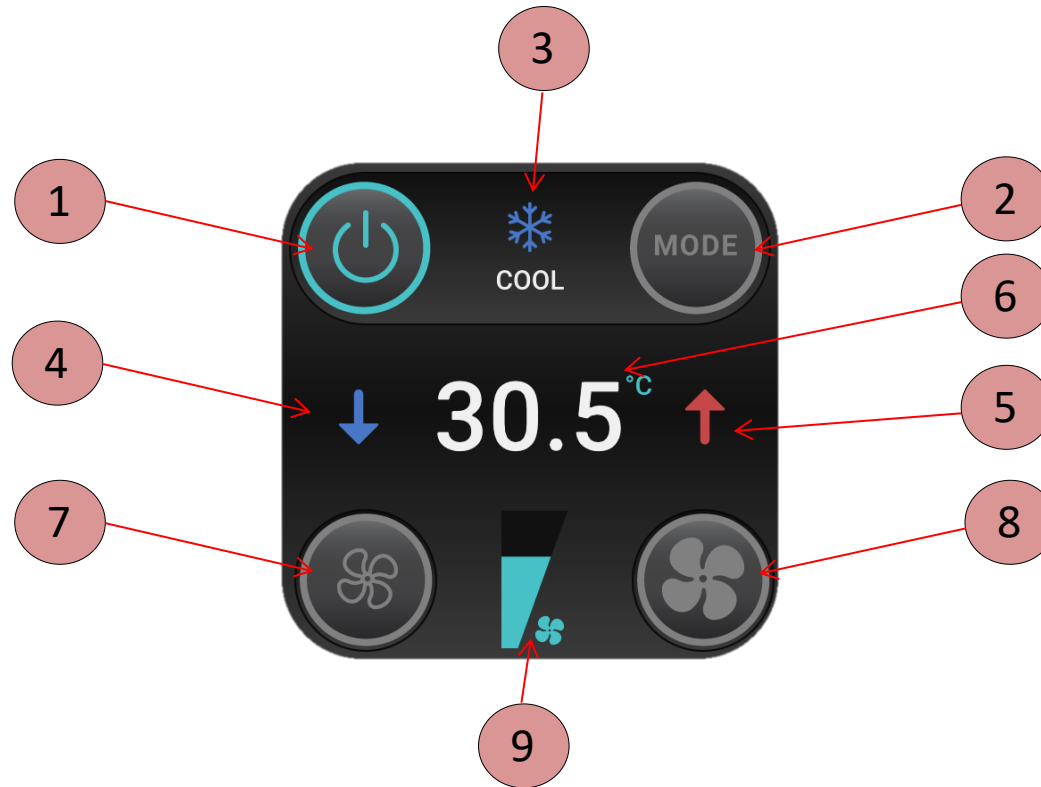


CLIMATE PAGE

The Climate page will appear if a supported air conditioner (HVAC) is configured on the system. It provides a graphical interface for controlling and monitoring the HVAC, allowing the user to control operating Modes, set point temp and fan speeds.



CLIMATE CONTROLS



1. Press the **Power** button to turn Aircon unit **On** or **Off**
2. Press the **Mode** button to cycle between available operating modes
3. Currently selected operating mode is shown
4. Press **Temp Down** button to adjust setpoint temperature down
5. Press **Temp Up** button to adjust setpoint temperature up
6. **Ambient temperature** is shown in white, and changes to blue when adjusting setpoint
7. Press **Fan Down** button to adjust fan speed down
8. Press **Fan Up** button to adjust fan speed up
9. Current fan speed is shown