

**CZONE®**

MARINE  
EMERGENCY VEHICLE  
INDUSTRIAL  
RV

2 0 2 3

# NAVICO GROUP

## Your most trusted partner

Navico Group is the world's leading supplier of integrated systems and products to industries ranging from marine to recreational vehicles. We bring together the best brands, products and people to create groundbreaking innovations that reinvent the consumer experience. Our broad portfolio of the industry's leading brands in power management, digital control & monitoring, networked devices, and marine electronics are distributed globally to a diverse aftermarket and OEM customer base. Navico Group is driven, every day, to be the world's most trusted partner to the marine and mobile industries, and beyond.



Lighting  
Marine Accessories  
Water and Fuel Systems  
[attwoodmarine.com](http://attwoodmarine.com)

**SIMRAD**

Chartplotters  
Radar  
Autopilots  
Sonar Technology  
[simrad-yachting.com](http://simrad-yachting.com)

**BEP**

Battery Management  
Power Distribution  
[bepmarine.com](http://bepmarine.com)

**ANCOR**

Wire  
Wire Management  
[ancorproducts.com](http://ancorproducts.com)



Battery Management  
Circuit Protection  
Power Distribution  
[blueseas.com](http://blueseas.com)

**CZONE**

Digital Control & Monitoring  
Onboard Offboard UX  
[czone.net](http://czone.net)

**B&G**

Chartplotters  
Displays  
Instruments  
Sensors  
[bandg.com](http://bandg.com)

**ProMariner™**

Battery Chargers  
[promariner.com](http://promariner.com)

**RELi<sup>3</sup>ON**

Lithium Batteries  
Portable Power  
AGM Batteries  
[reli3onbattery.com](http://reli3onbattery.com)

**MotorGuide**

Trolling Motors  
[motorguide.com](http://motorguide.com)



Heating Systems  
Pumps  
[whalepumps.com](http://whalepumps.com)

**C-MAP**

Marine Cartography  
[c-map.com](http://c-map.com)

**MARINCO**

AC Shore Power  
Marine Accessories  
[marinco.com](http://marinco.com)



Actuators  
Trim Tab System  
[lencomarine.com](http://lencomarine.com)

**GARELICK**

Metal Fabricated  
Hardware  
[garelick.com](http://garelick.com)

**LOWRANCE**

Chartplotters  
Fishfinders  
Sonar & Radar  
Trolling Motors  
[lowrance.com](http://lowrance.com)

**MASTERVOLT**

Batteries  
Power Conversion  
[mastervolt.us](http://mastervolt.us)





CZone is Smart Technology for your boat or RV. Intelligent and intuitive, CZone does the thinking for you so you can spend more time doing what you love.



#### **I FOUNDER'S VISION**

For over 12 years industry leading digital control and monitoring technology from CZone has revolutionized the control and management of electrical systems in the recreational and light commercial vessel industry, and become established in recreational, specialty and emergency vehicle markets across the globe. CZone provides complete control and monitoring of all electrical circuits through dedicated touch screen interfaces, integrated marine navigation displays, wirelessly via iPad or key fob remote, or remotely via telematics integration.

#### **I INNOVATION**

CZone offers system-wide functionality of your onboard systems onto a single screen or wireless device, while offering industry leading integration with suppliers from marine navigation displays, power storage and generation, and appliances like air-conditioning and more.

#### **I SIMPLICITY**

CZone simplifies your boat or vehicle's onboard electrical system making it easier and more enjoyable.

#### **I RELIABILITY**

CZone has proven durability, with over 10 years of installations in harsh marine environments through over 200 dedicated boat builders and technical installers.

#### **I GLOBAL SERVICE & SUPPORT**

CZone has a broad network of technical dealers and distributors to support the installation and servicing of CZone systems across the globe. Regionally located logistics and technical competency centers ensure the global network is well supported.



# 2023 Highlights

CZONE



PAGE | 36

## Control X

Control X is the smartest and sleekest CZone module, and the first with a fully waterproof enclosure. Configurable input and output channels provides ultimate flexibility to optimize system design and installation.

|                       |                               |
|-----------------------|-------------------------------|
| Part # 80-911-0230-00 | Control X PLUS c/w Connectors |
| Part # 80-911-0230-01 | Control X PLUS Interface Only |
| Part # 80-911-0231-00 | Control X c/w Connectors      |
| Part # 80-911-0231-01 | Control X Interface Only      |

CZONE



PAGE | 38

## RV1

RV1 is CZone's first dedicated digital switching and integration module for recreational & specialty vehicles. RV1 features an impressive 76 input and output channels including 8 reversing motor channels for direct control of slide outs, awnings, shades and levelling systems. RV1 also includes the latest smart switching technology, built-in battery monitoring and multiple network interfaces for seamless 3rd party system integration.

|                       |                        |
|-----------------------|------------------------|
| Part # 80-911-0221-00 | CZone RV1 MID Spec Kit |
|-----------------------|------------------------|

CZONE



PAGE | 32

## Touch 7

The Touch 7 features all new electronics with the fastest dual core processor ever in a CZone Touch display and built in Wi-Fi connectivity and Ethernet for tablet pairing. The Touch 7 has a wide 8-32V DC voltage range and uses the familiar and easy to use CZone 2.0 User Interface.

|                       |                                |
|-----------------------|--------------------------------|
| Part # 80-911-0200-00 | CZone Touch 7 Kit              |
| Part # 80-911-0201-00 | Touch 7 Mounting Bracket Kit   |
| Part # 80-911-0202-00 | Touch 7 1M NMEA2000 Drop Cable |
| Part # 80-911-0203-00 | Touch 7 Power Connector        |

CZONE



PAGE | 31

## Touch 10 Generation 2

Touch 10 Generation 2 features all new electronics with an ultra-fast dual core processor, that ensures the CZone 2.0 user interface is faster and more reliable. The Touch 10 Gen 2 includes an IPS LCD Display, optically bonded to improve contrast and is viewable from every angle and in all lighting conditions.

|                       |
|-----------------------|
| Part # 80-911-0216-00 |
|-----------------------|

CZONE®



PAGE | 44

### Contact 6 PLUS

Utilizing proven CZone digital switching technology the Contact 6 PLUS is a robust and affordable digital switching solution. Featuring 6x 15A solid state ignition protected fused outputs with circuit bypass for system redundancy. The Contact 6 PLUS can be networked into an existing CZone system or installed stand-alone with the CZone Waterproof Keypads or compatible multi-function displays.

Part # 80-911-0160-00

CZONE®



PAGE | 58

### Waterproof Keypads

The CZone Waterproof Keypad range features dimmable RGB circuit backlighting in a robust IPX7 waterproof enclosure and is available in portrait and landscape orientations.

- |                       |                  |
|-----------------------|------------------|
| Part # 80-911-0163-00 | 6-way portrait   |
| Part # 80-911-0162-00 | 6-way landscape  |
| Part # 80-911-0164-00 | 12-way portrait  |
| Part # 80-911-0165-00 | 12-way landscape |

### RV-C Cabling & Adapters

RV-C specific cabling and adapters will work with existing and future CZone products with the aim of reducing the overall network cost for RV builders. RV-C cables service the increased demand of CZone installations in the RV market and offers RV builders an alternative to NMEA 2000 & Cable networks in applications where waterproofing is not required.



PAGE | 59









# Table of Contents

## CZone Overview

|                |   |
|----------------|---|
| CZone Overview | 8 |
|----------------|---|

## Digital Control & Monitoring

|  |    |
|--|----|
| CZone Displays                           | 30 |
| CZone Wireless Interface                 | 34 |
| CZone Control X                          | 36 |
| CZone RV1                                | 38 |
| CZone Control 1                          | 40 |
| CZone Combination Output Interface (COI) | 42 |
| CZone DC Interfaces                      | 44 |
| CZone AC Interfaces                      | 50 |



p. 31



p. 34



p. 36



p. 38



p. 40



p. 42



p. 44



p. 46



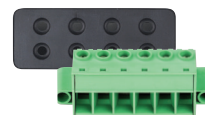
p. 50

## Accessories

|   |    |
|---|----|
| NMEA 2000 Network Components                        | 54 |
| RV-C Cabling  | 55 |
| Terminal Blocks, Glands, Seals & Hole Plugs         | 56 |
| Control 1, COI & DSB Accessories                    | 56 |
| Touch 5, 7 & 10 Accessories                         | 57 |
| Contact 6 & Contact 6 PLUS Accessories              | 57 |
| CZone Waterproof Keypads                            | 57 |
| CZone Smart Harnesses                               | 58 |
| Push Button Switches, Rocker Switches & Accessories | 59 |
| Network Interfaces                                  | 60 |
| Misc Accessories                                    | 61 |



p. 54



p. 55



p. 56



p. 57



p. 57



p. 58



p. 59



p. 60



p. 61

## Index

|                   |    |
|-------------------|----|
| Part Number Index | 62 |
|-------------------|----|





The background of the entire page is a photograph of a sunset over a body of water. The sky transitions from a deep orange near the horizon to a dark, almost black, at the top. The water in the foreground is dark with gentle ripples. In the upper right quadrant, there is a grid of small, white, square-like shapes arranged in approximately 10 rows and 15 columns. The text "The future of boating is here." is written in a large, white, sans-serif font, positioned in the upper left area of the image. A thin red vertical line is placed to the left of the text.

**The future of  
boating is here.**





# Ultimately exapandable

Future proof your boat or RV with an intelligent platform.







## I CZONE SIMPLIFIES

Simplify your adventures with smart control and monitoring that removes the complexity of onboard systems.




## I ULTIMATELY EXPANDABLE

CZone is ultimately expandable and flexible for your everyday boat and RV life.

PHOTO COURTESY OF RIVIERA AUSTRALIA PTY LTD.

### NIGHT ENTERTAINING


ANCHOR LIGHT  ON

ENTERTAINMENT  ON


SALOON LIGHTS  90%

BATTERIES  96%

### DAY LIVING

SATELLITE RECEIVER  ON

SLIDE OUT  OPEN

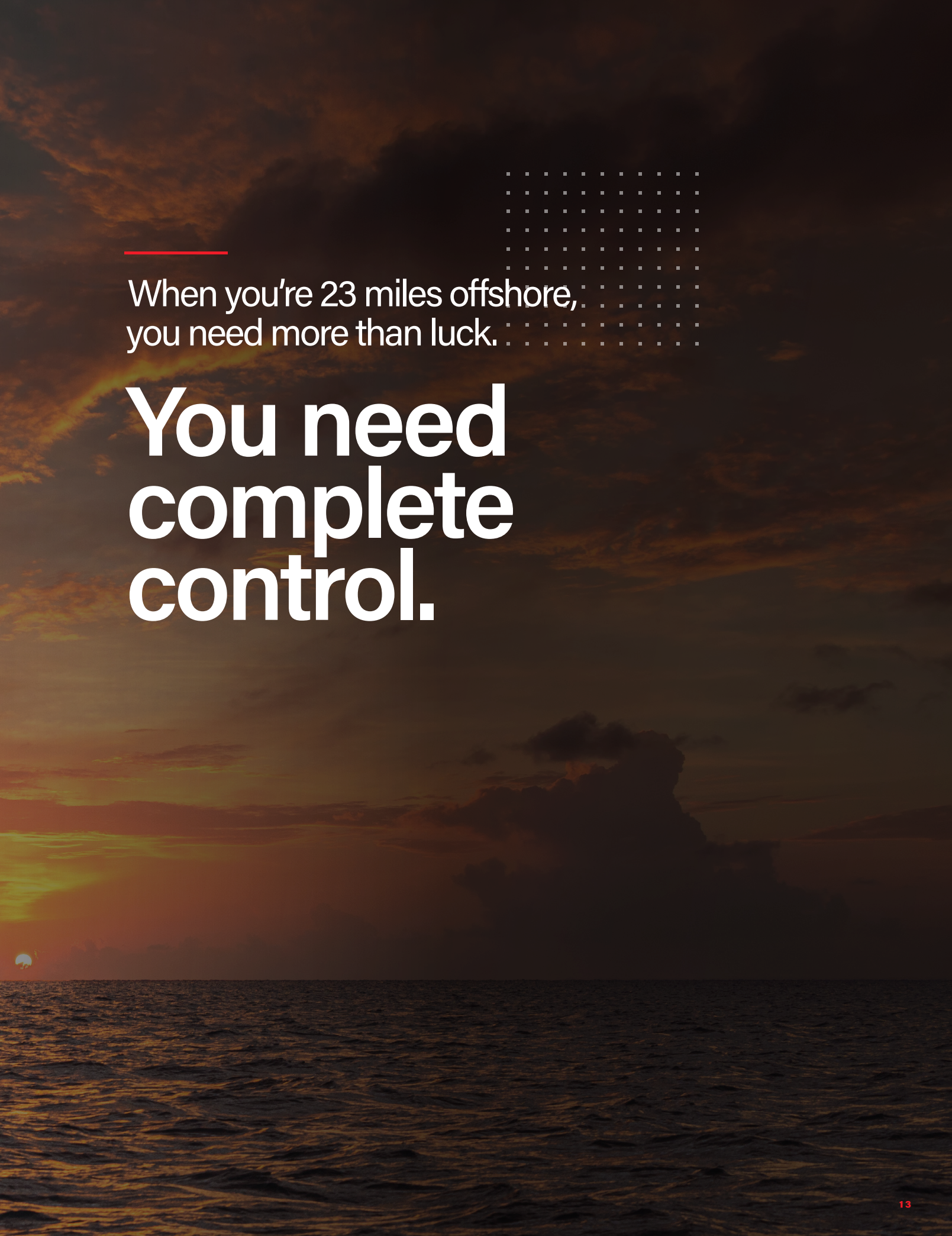
SIDE STEP  OPEN

STABILIZERS  DOWN







A dramatic sunset over the ocean with a grid of dots in the upper right.

When you're 23 miles offshore,  
you need more than luck.

**You need  
complete  
control.**



---

You do the fishing.  
Let CZone do the  
thinking.











# Personalized control



## Modes

CZone gives you an entirely personalized experience. Set your boat or vehicle up with modes that can be activated with one touch via the screen, wireless key fob, iPad, or remotely through telematics.



### ■ Customize your modes

Your CZone dealer can configure modes to suit your boating or RV needs.





## MARINE MODES



### ■ Day Cruising

Engine room venting, hydraulic control and trim tab pumps primed.

### ■ Night Anchor

Minimal interior lighting on exit points for safety. Silencing non-essential audible systems.

### ■ Night Fishing

Rear deck working lights sufficient for rigging bait and lures, with underwater lights illuminating the catch as it's boated.

### ■ Night Cruising

Correct navigation lights on, and cockpit lighting reduced, allowing for safe navigation of the vessel.

### ■ Night Entertaining

Mood lighting, underwater lights and music system powered up.

### ■ Fishing

Tuna tubes flowing and live well tank pumps operating.

## RV MODES



### ■ Away

All non-essential circuits and appliances off.

### ■ Driving

Awnings, slide outs, stabilizers in. Gas supplies shut off.

### ■ Night Entertaining

Lights dimmed, music on, exterior lights on.

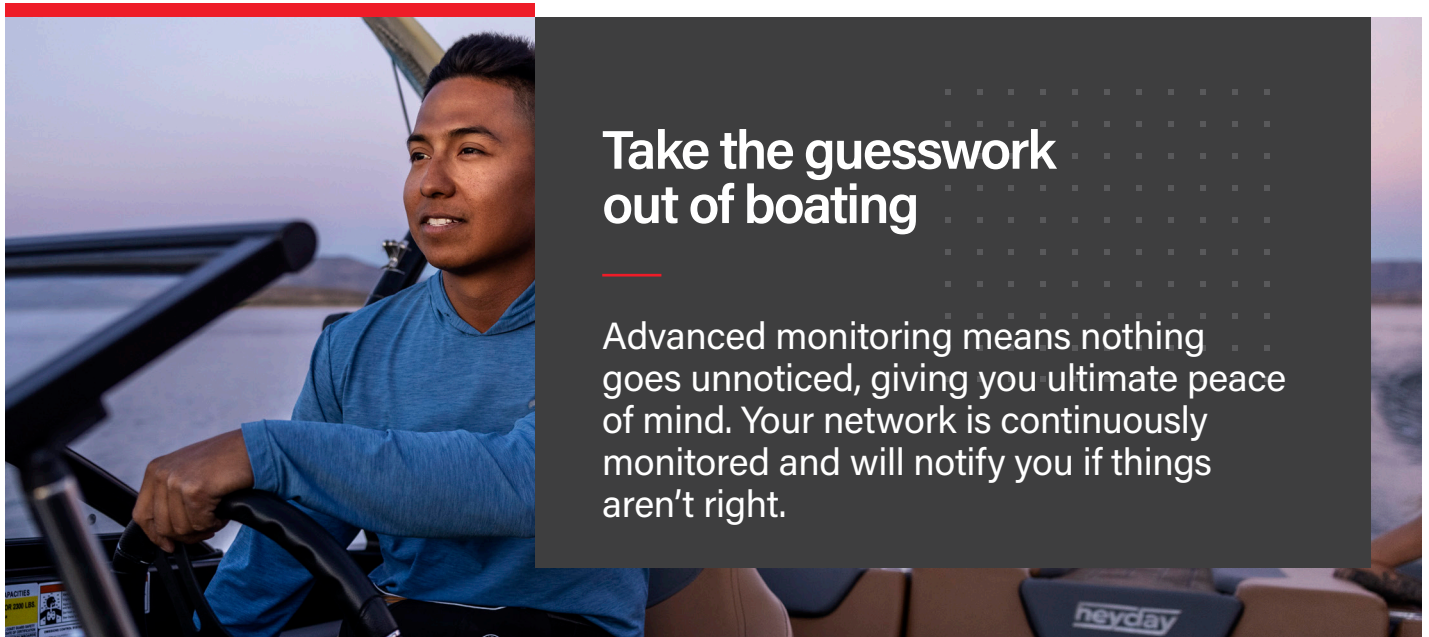
### ■ Day Living

Exterior lights off, fridges and appliances on, power outlets active.





# Complete awareness



## Take the guesswork out of boating

Advanced monitoring means nothing goes unnoticed, giving you ultimate peace of mind. Your network is continuously monitored and will notify you if things aren't right.



### MONITOR

CZone displays will give you all system data including tank levels, battery data, and circuit status.



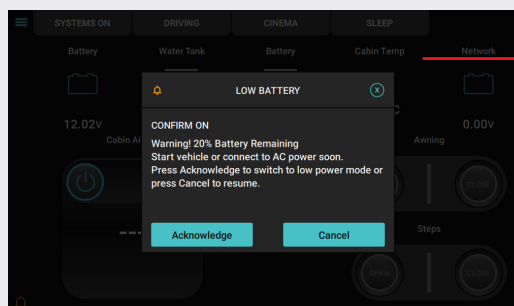
### At a glance monitoring

Be in the know with all of your system components.



### NOTIFY

Notifications can be configured to type and severity. Low level warnings indicate a minor issue, standard alarms require something to be investigated or critical alarms require immediate action.



### Pop Ups

Send pop ups to your screen so you are prompted to take action to prevent damage to equipment or circuits.





## PROTECT

Smart technology provides complete protection of your system. By automating key functions, CZone ensures your vessel/vehicle is easy, intuitive and safe to operate.

- Motorized equipment such as hatches, slideouts and awnings can be locked out while driving to protect the equipment and any personnel.
- Protect batteries and extend runtime by automatically shedding non-essential circuits and even trigger an auto generator start to start charging the battery when very low.
- Protect water pumps from running dry by automatically switching off when tanks are empty.



A photograph of the interior of a boat, likely a ferry or tour boat. In the foreground, the back of a person's head and shoulders are visible, wearing a grey sweater. They are seated in a blue upholstered chair. In the background, a woman and a young boy are seated at a wooden table. The woman is smiling and holding a white cup. The boy is looking down. The boat's interior features wooden paneling, framed pictures on the wall, and large windows looking out onto a bright, overcast day. The overall atmosphere is calm and relaxed.

---

# The most important connections have nothing to do with tech.

The way we see it, nature is not meant to be disturbed. With integrated power, you hear the sounds of the outdoors, not a generator.









# Powerful system integrations

**CZONE**

**MASTERVOLT**

Mastervolt offers a market leading solution for complete power management from supply, storage and conversion. The CZone and Mastervolt relationship gives you complete visibility into your power system.



## 1 Touch 7

The Touch 7 features all new electronics with the fastest dual core processor ever in a CZone Touch display and built in Wi-Fi connectivity and Ethernet for tablet pairing.

## 2 RV1 **NEW**

RV1 features 76 input and output channels including 8 reversing motor channels for direct control of slide outs, awnings, shades and leveling systems. RV1 also includes the latest smart switching technology, built-in battery monitoring and multiple network interfaces for seamless 3rd party system integration.

## 3 Alpha Pro III

Maximizes the output of the Mastervolt Alpha Alternators by regulating the alternator in a way that the batteries receive the optimum charge.

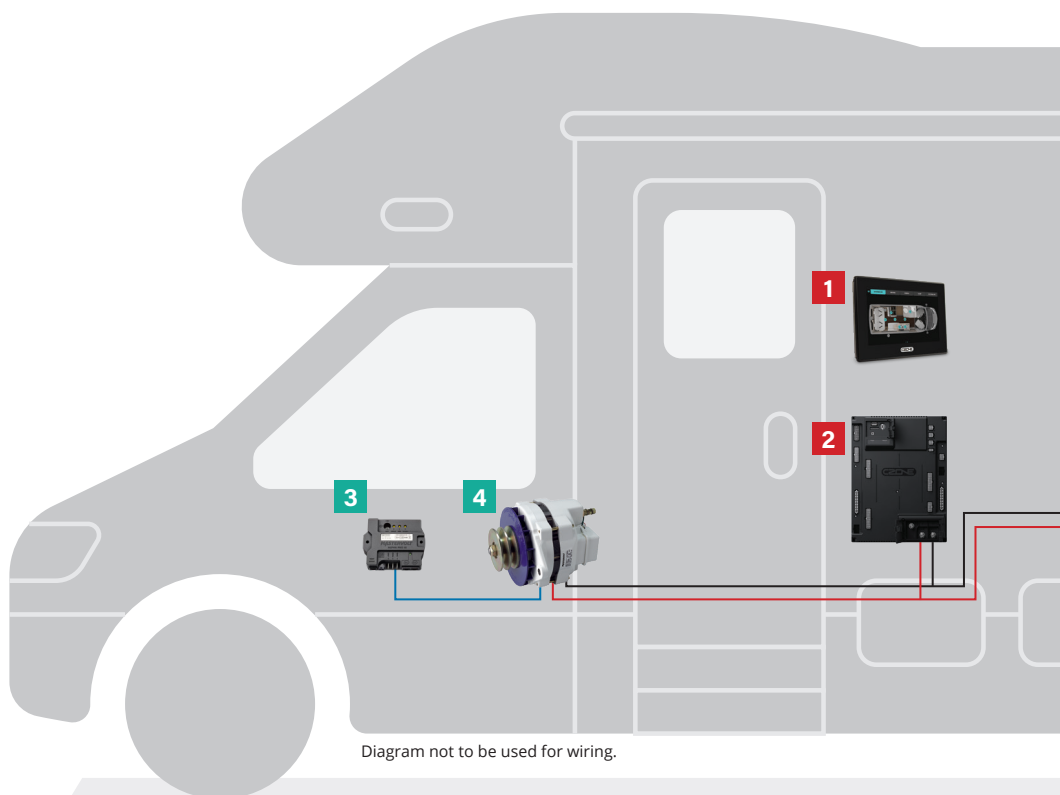
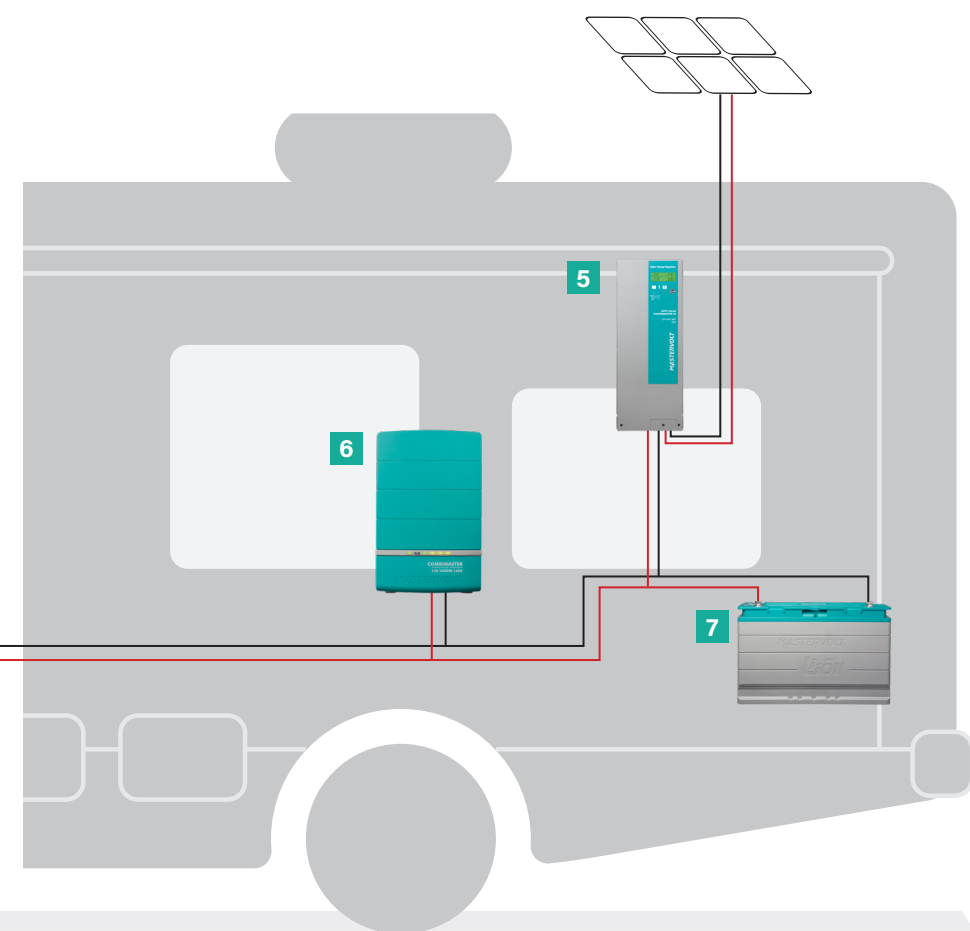


Diagram not to be used for wiring.





#### 4 Alpha Alternator

Optimized to deliver continuous high-power output in energy storage applications. Combined with Alpha Pro Regulators they create a high performance plug and play charging solution, suitable for all battery types with a range of mounting options for different engine sizes.

#### 5 Solar ChargeMaster

SCM60 MPPT-MB (Maximum Power Point Tracking) increases the efficiency of your solar panels and charges your batteries up to 30% faster than PWM regulators.

#### 6 CombiMaster

CombiMaster delivers unmatched performance, powering the heaviest or most sensitive loads with ease. The automatic AC transfer system switches between generator or main supply and inverter output, ensuring a constant power supply.

#### 7 MLI Ultra

Heavy duty, extreme performance. The MLI series delivers extreme Lithium Ion performance even under the harshest conditions.

Visit [mastervolt.com](https://mastervolt.com) for more info.







A motorboat is shown from the side, moving across the water. Several people are on board; one man in the foreground is standing with his arms raised. The boat has a white hull with 'WHALER' and 'MERCURY' written on it. A red and white flag is flying from the mast. The sky is filled with large, grey clouds.

The best tech,  
is connected.





# Powerful partner integrations



## STAY CONNECTED

Today's boats and vehicles have a diverse range of complex systems on board.

CZone brings smart technology to your boat or RV, connecting everything and giving you complete control of onboard equipment with ease.

CZone integrations reduced complexity and automates systems.



Advanced Systems Group is your most trusted partner.

Whether on water or on the road, delivering an optimal user experience is the heart of ASG's business, we are proud to be the world's leading supplier of products and integrated systems to the marine and RV market.

**B&G**

**BEP**

**BLUE SEA**  
SYSTEMS

**LOWRANCE**

**MASTERVOLT**

**SIMRAD**





Works with CZone gives you complete confidence knowing that any integration that carries the landmark, adheres to strict guidelines and is tested and validated by leading engineers.



#### I MFD INTEGRATION

Control and monitor CZone through MFD's from these manufactures.





# DIGITAL CONTROL & MONITORING

## CZone® Displays



30

CZone displays are designed with both the manufacturer and end-user in mind. The easy-to-use display screens put the control of all components directly at your fingertips.

## CZone® Wireless Interface



34

The CZone wireless interface allows your iPad® to interface with an onboard digital control and monitoring system for full monitoring and control of the electrical equipment via a clear and intuitive display.

## CZone® Control X



36

Control X is the smartest and sleekest CZone module, and the first with a fully waterproof enclosure. Configurable input and output channels provides ultimate flexibility to optimize system design and installation.

## CZone® RV1



38

RV1 is CZone's first dedicated digital switching and integration module for recreational & specialty vehicles. RV1 features an impressive 76 input and output channels including 8 reversing motor channels for direct control of slide outs, awnings, shades and levelling systems.





# DIGITAL CONTROL & MONITORING

## CZone® Control 1 Interface



40

The Control 1 combines multiple input and output devices into a single rugged IPX5 module featuring industry leading CZone core functionality and complete mechanical fuse and bypass on each circuit.

## CZone® Combination Output Interface (COI)



42

Digital control and monitoring systems just got easier to install with the new CZone Combination Output Interface (COI). This one box replaces up to five separate modules, with industry-standard Deutsch connectors and IPX5 water resistance.

## CZone® DC Interfaces



44

CZone DC Interfaces provide an intelligent replacement for traditional circuit breaker panels as well as interfacing traditional mechanical switches & sensors with the CZone network.

## CZone® AC Interfaces



50

CZone AC Interfaces handle the complex management of multiple AC supplies to ensure AC circuits are powered from the appropriate source, along with providing control & monitoring of all circuits from the same intuitive CZone screen.







## CZone® Displays

CZone displays are designed with both the manufacturer and end-user in mind. The easy-to-use display screens put the control of all components directly at your fingertips. Multiple display interfaces can be used in the same system. The scroll and click interface is simple to use in the roughest of seas or bumpiest of roads.

CZone displays are the interface between the CZone network and the user. They offer full control of circuits as well as the ability to view important onboard system information, such as tank levels and power levels (for both AC and DC supplies).

Audible and visual alarms with systems diagnostics are also provided. The displays are extremely intuitive to use with simple controls and a menu structure that is easy to follow. The 'modes of operation' feature allows the control of multiple circuits with the push of a button.





# Touch 10 Generation 2 NEW

Premium touch interface with glass dash styling and low profile mounting

The generously sized Touch 10 provides excellent viewability and is the premium gateway into your integrated CZone system. Sleek and attractive, this display will complement the interior of any high-end application. But it's not all about looks - with the Touch 10, your CZone system is in good hands.

Capacitive high-bright touch display offers impressive daylight visibility with crisp graphic detail and elegant touch sensitivity. Full control offers an impressive wrap-sheet. Use mode selection to pick the right system configuration for you. Control and monitor key system functions and status, from tank level to current draw.

- Sleek glass dash styling
- Optically bonded IPS LCD provides excellent viewing angles
- 24 bit color for better color accuracy and contrast
- High resolution 1024 X 600 pixel for sharp and clear images
- 500nit brightness dimmable for night-time viewing
- NMEA 2000 compatible
- New dual core processor provides lightning fast performance
- Wide 8-32V DC range
- Consistent and familiar CZone 2.0 User Interface, customizable for any OEM



Slim  
Side  
Profile

- 80-911-0216-00** Touch 10 Generation 2
- Accessories**
- 80-911-0032-00** Touch 10 Power Cable, 2 pin, 6.5ft (2m)
- 80-911-0114-00** Touch 10 Mounting Bracket Kit

|                    |  |
|--------------------|--|
| Screen             | 10.1" LED-backlit Projected Capacitive Touch display with IPS Technology |
| Aspect Ratio       | Widescreen 16:10   |
| Resolution         | 1280 x 800 pixels  |
| Protection         | IPX6   |
| Dimensions (WxHxD) | 7.72" x 10.83" x 1.61" (196 x 275 x 41 mm)                               |
| Weight             | 4.0 lb / 1.8 kg  |
| Brightness         | 500nit   |
| Input voltage      | 8-32V  |
| Power consumption  | 1A @ 12V, 500mA @ 24V  |
| Interfaces         | NMEA 2000, USB2.0, Ethernet  |

## Related Products



Touch 10 Accessories  
page 56





# Touch 7

Introducing the CZone Touch 7. With an excellent 7" IPS LCD panel it can be viewed from any angle. The Touch 7 features all new electronics with the fastest dual core processor ever in a CZone Touch display and built-in Wi-Fi connectivity and Ethernet for tablet pairing. Installation is easy with front mount installation and screwless rear access, shallow 35mm mounting depths (including cable) and a wide 8–32V DC range. The Touch 7 also uses the familiar and easy to use CZone 2.0 User Interface, customizable for any OEM. The Touch 7 is primarily designed for RV applications, and any marine application should be reserved for parts of the vessel that remain dry.

- Easy to use touch interface
- Glass dash styling
- 24 bit color for better color accuracy and contrast
- 550 cd/m2 brightness dimmable for nighttime viewing
- Built in Wi-Fi connectivity
- NMEA 2000 compatible

80-911-0200-00 CZone Touch 7 Kit\*

### Accessories

- 80-911-0201-00 Touch 7 Mounting Bracket Kit  
80-911-0202-00 Touch 7 1M NMEA 2000 Drop Cable  
80-911-0203-00 Touch 7 Power Connector  
\*Kit includes mounting bracket, 1M Network drop and power connector



|                    |   |
|--------------------|---|
| Screen             | 7" IPS  |
| Resolution         | 1024 x 600 pixels   |
| Protection         | IPX0  |
| Dimensions (WxHxD) | 5.12" x 7.68" x 1.61" (130 x 195 x 41 mm)   |
| Brightness         | 550 cd/m²   |
| Operating Voltage  | 8-32V DC  |
| Current Draw       | 430mA @ 12V (operating – backlight 100%)<br>130mA @ 12V (standby – backlight off) |
| Interfaces         | USB 2.0, Ethernet, NMEA 2000, Wi-Fi   |

### Related Products



Touch 7 Accessories  
page 57





# Touch 5

**Built-in WiFi allows direct-connection of an iPad for wireless control and monitoring of the system.**

The compact Touch 5 is small but mighty, offering a powerful touch screen interface for CZone's powerful digital control and monitoring. With a compact sleek design, the Touch 5 complements nearly any vessel dash or vehicle space. Built-in WiFi connectivity brings your CZone system into the wireless dimension, allowing full control of system functions—from mode selection, system monitoring and individual circuit control—straight to your fingertips, no matter where onboard you are.

- Easy to use touch interface
- Glass dash styling
- Super bright widescreen display
- Low profile flush mounting
- Reduced system cost and complexity, combines display and Wireless Interface functionality into one unit
- IPX7 water ingress protection
- Built-in WiFi connectivity
- Micro SD card slot
- NMEA 2000 compatible

- 80-911-0124-00 Touch 5
- 80-911-0135-00 Touch 5 retrofit plate 12V kit\*
- 80-911-0136-00 Touch 5 retrofit plate 24V kit\*\*

\*Required for retrofitting CZone 3.5" Display Interface.  
\*\*Required for retrofitting CZone 3.5" Display Interface. Supplied with 3A 24/12V Converter.



|                    |  |
|--------------------|--|
| Screen             | 5" LED-backlit Projected Capacitive Widescreen Touch |
| Resolution         | 800 x 480 pixels                                     |
| Protection         | IPX7   |
| Dimensions (WxHxD) | 5.98" x 4.72" x 2.28" (152 x 120 x 57.9 mm)          |
| Brightness (cd/m2) | 1200 cd/m <sup>2</sup>                               |
| Input voltage      | 12V DC   |
| Power consumption  | 900mA @ 13.5v  |
| Interfaces         | NMEA 2000, Micro SD                                  |

## Related Products



Touch 5 Accessories  
page 57





# CZone® Wireless Interface

The Wireless Interface (WI) is a digital control and monitoring interface module designed to connect your tablet to the CZone network over WiFi. Handling up to three devices, the WI can offer connectivity of its own internal access point or can interface with other WiFi network systems on your vessel.

Use the built-in Ethernet port for a better connection to an existing network.

- 80-911-0090-00 Wireless Interface
- 80-911-0095-00 WI MasterBus Connector (required for MasterBus connection)



### Features:

- User-friendly homepage to monitor and control onboard circuits
- Integrated control and monitoring of power products including battery chargers and inverters
- Monitor AC/DC power and batteries
- Monitor tank levels
- Receive visible alarms
- Connect a maximum of three devices simultaneously
- Ability to personalize homepage to display favorite circuits, modes & monitoring
- Customize your layout
- Connects to CZone or MasterBus networks for control and monitoring of systems

### Hardware:

- The Wireless Interface acts as the hub between MasterBus/CZone networks and local WiFi devices

NOTE: WI MasterBus connector required for MasterBus connection

- Ethernet connection to connect to other LANs
- USB connection for configuration updates
- Tested to FCC, CE, EMC
- Power cable and aerial included

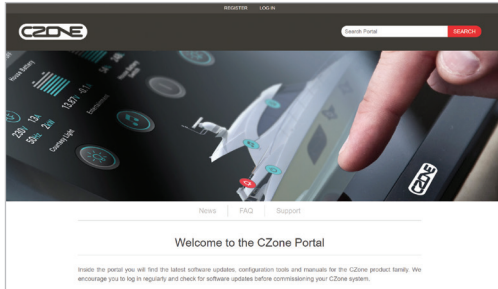
|                    |   |
|--------------------|---|
| MasterBus powering | no  |
| Dimensions, hwxwd  | 4.1" x 7.5" x 2.4" / 105 x 190 x 60 mm                        |
| Weight             | 1.5 lb / 0.685 kg   |
| Protection degree  | IP54  |
| Delivered with     | power cable, WiFi antenna, USB extension cable, user's manual |





# CZone® Design & Configuration Made Easy

CZone's leading configuration process is relatively easy and all technical customers are offered training so they can design and program CZone systems quickly. Generally generating a configuration and programming a system is both time consuming and complex. Most digital control and monitoring providers required highly trained technicians to program and commission installations, making them time consuming, inflexible and far more costly. Easy configuration with CZone means technical customers can provide this service themselves ensuring the system is setup quickly and the end customer receives industry leading service.



## CZone Configuration Tool

The CZone Configuration Tool software is available to technical CZone customers from the CZone portal at [downloads.czone.net](https://downloads.czone.net)



The CZone Configuration Tool then allows the programmer to upload the new configuration to the connected CZone system via USB Canbus Adapter (below). Each connected system module is updated simultaneously.

CZone configurations are setup, saved, duplicated and customized all from the programmer's PC using the CZone Configuration Tool.

CZone configurations can be programmed repeatedly to each new build in a manufacturing line making ongoing deployment efficient and stable. Setting up a new variation for a new vessel or vehicle is easy and simply involves duplicating the existing configuration as a base and then modifying the affected components and circuits as required.



## USB to CAN Adapter

Connects PC to the CZone network for configuration and system set up.

*Note: Mastervolt USB Interface now compatible with CZone configuration tool.*

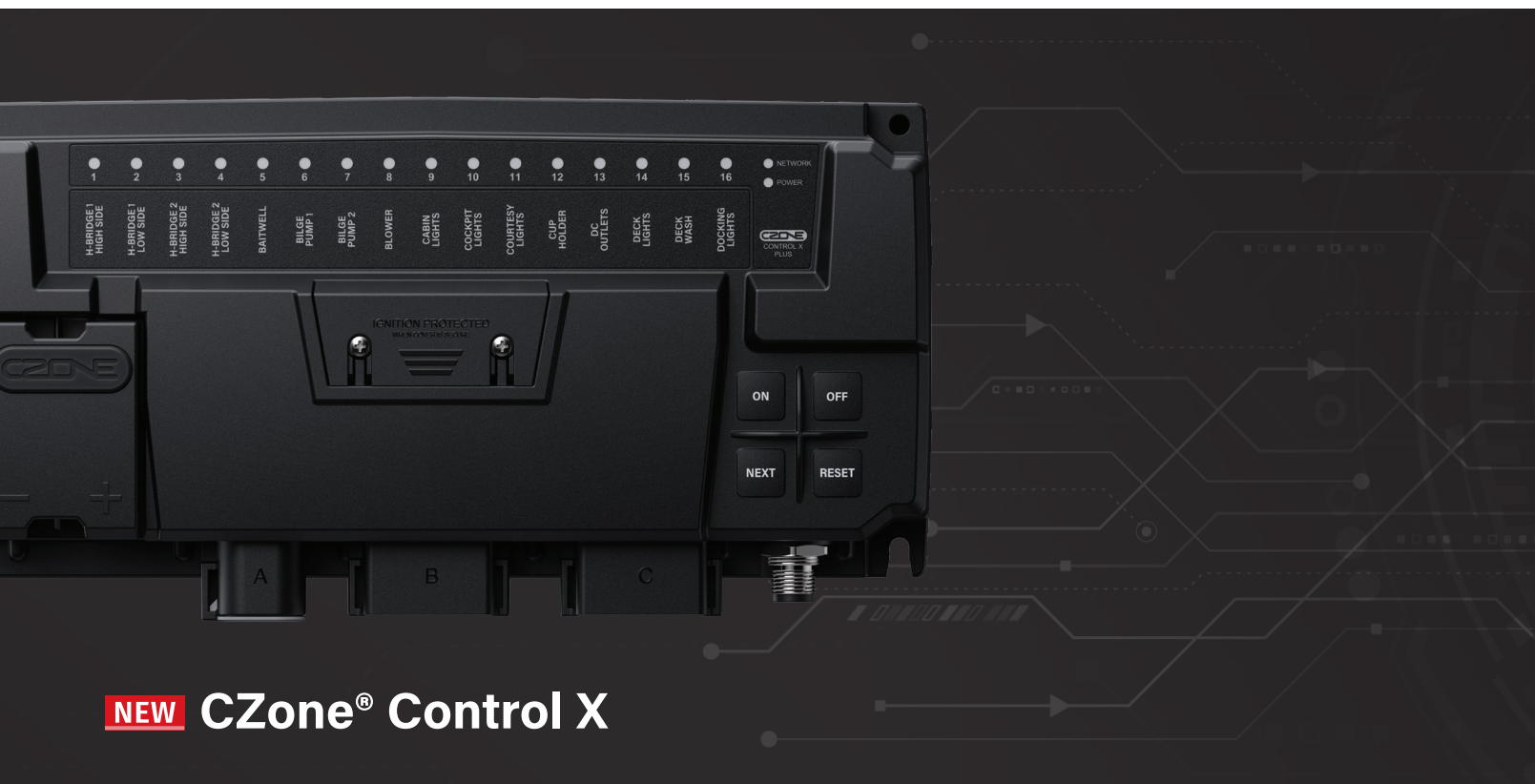
Part # 77030100

## Related Product



Mastervolt-CZone  
Drop Cables  
page 61





## NEW CZone® Control X

Control X is the smartest and sleekest CZone module, and the first with a fully waterproof enclosure. Configurable input and output channels provides ultimate flexibility to optimize system design and installation.

Control X uses the latest smart MOSFET switching technology providing improved reliability, and silent operation. Features such as multiple RGB lighting control zones, reversing motor H-bridge outputs and wiper motor synchronization eliminates the need for 3rd party controllers giving installers complete flexibility to configure the modules to specific requirements.

### Features

- Ignition protected, IPX7 waterproof enclosure
- RGB light controller
- Wiper motor control with synchronization
- Configurable I/O channels for ultimate flexibility
- Manual override touch panel
- Multiplex switch inputs
- Moulded in Deutsch receptacles



| Part #             | Description                   |
|--------------------|-------------------------------|
| 80-911-0230-00     | Control X PLUS w/ Connectors  |
| 80-911-0230-01     | Control X PLUS Interface Only |
| 80-911-0231-00     | Control X w/ Connectors       |
| 80-911-0231-01     | Control X Interface Only      |
| <b>Accessories</b> |                               |
| 80-911-0232-00     | Control X PLUS Connector Kit  |
| 80-911-0233-00     | Control X Connector Kit       |



## RGB Lighting Control

CZone has incorporated an RGB light controller built into Control X for simplified and seamless lighting control. Independently control brightness of lights on the same color zone, smooth transition color effects and control lighting scenes from CZone circuits like party mode, and night-time navigation.

## Automatic Bilge Pump Monitoring

Control X output channels have voltage backfeed detection used to monitor if a circuit has been turned on externally. This allows for features like notifying operators if automatic bilge pumps have been turned on and to use external voltage signals to trigger other CZone circuits.

## Wiper Sync

Control X can synchronise up to 8 wiper motors on the same module and allows easy configuration of slow and high speed control as well as 3 unique intermittent timers.

## Smart MOSFET Technology

CZone's latest 100% solid state MOSFET switching technology, eliminates the need for physical fuses with temperature monitoring and configurable overcurrent protection in smaller, more reliable components. Software fuse ratings are entered in the configuration file.

## Specifications

|                              | Control X PLUS  | Control X      |
|------------------------------|---|----------------|
| Channels                     | 27  | 23             |
| Monitoring                   | Battery voltage, house current draw, house state of charge, analog and digital inputs |                |
| Power Consumption Max        | 200mA   | 200mA          |
| Power Consumption Sleep      | <5mA  | <5mA           |
| Circuit Bypass               | Electronic via capacitive touch panel   |                |
| Bilge Pump Running Detection | All high side output channels   |                |
| Ingress Protection           | IPX7  | IPX7           |
| NMEA 2000 Connectivity       | 1 x NMEA 2000 Micro-C port, 1 LEN   |                |
| NMEA 2000 PGN Output         | Fluid level, pressure, temperature, battery volts, state of charge                    |                |
| Operating Temperature Range  | -5°F to +131°F (-15°C to +55°C)   |                |
| Compliance                   | Ignition protected, CE, RCM, NMEA 2000, UK-CA   |                |
| Nominal Voltage              | 9-32V   | 9-32V          |
| Max Current Rating           | 120A  | 120A           |
| Circuit Current Monitoring   | All output channels   |                |
| RGB Zones                    | 2   | 1              |
| Reversing Motor Control      | 2   | 0              |
| Dimensions W x H x D         | 9.70" x 5.41" x 2.13"<br>246.5 x 137.4 x 54.0mm                                       |                |
| Weight                       | 1.79 lb / 810g  | 1.75 lb / 792g |
| Warranty Period              | 2 years   | 2 years        |



Bottom view showing moulded in Deutsch receptacles

## Related Products



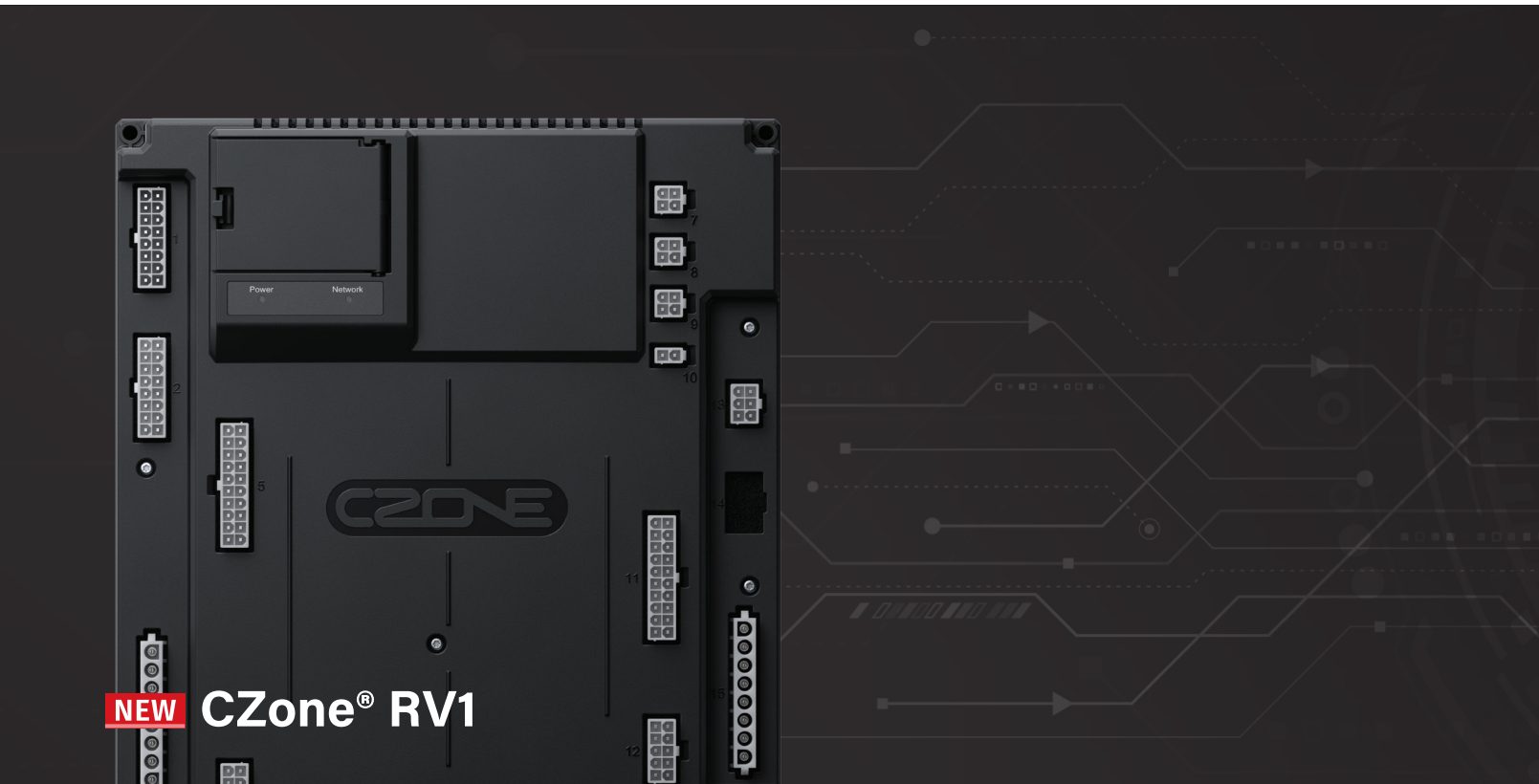
Waterproof Keypads  
page 58



Touch 5 Display  
page 33



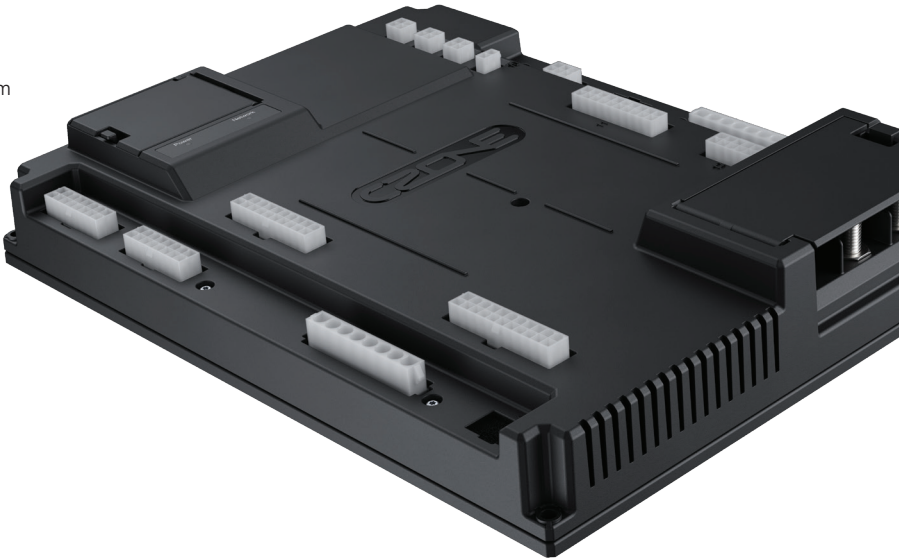




RV1 is CZone's first dedicated switching and integration module for recreational & specialty vehicles. RV1 features an impressive 76 input and output channels including 8 reversing motor channels for direct control of slide outs, awnings, shades and levelling systems. RV1 also includes the latest smart switching technology, built-in battery monitoring and multiple network interfaces for seamless 3rd party system integration. By consolidating the functionality of multiple CZone modules into one compact unit, RV1 reduces system cost, complexity and installation time. RV1 enables RV builders to meet customer expectations for smart, automated and connected systems at an affordable price point.

### Features

- Compact footprint, 70% smaller than equivalent legacy CZone system
- 36 Output and 8 Reversing Motor (H-Bridge) channels
- 32 Signal Inputs for 0-32V, 0-1000Ω sensors and pos/neg switches
- PWM and smooth start on all outputs
- Current monitoring, software fusing and low/run current detection all outputs
- Internal battery monitoring (SOC, Volts, Amps, Time Remaining)
- 12/24V system support and sleep mode (<5mA)
- CZone, RV-C, CAN & LIN Bus network interfaces built-in
- Auto Generator Start and Load Shedding capabilities
- Automatic Climate Control



| Part #             | Description                |
|--------------------|----------------------------|
| 80-911-0221-00     | RV1 MID Spec Kit           |
| <b>Accessories</b> |                            |
| 80-911-0225-00     | RV1 MID Spec Connector Kit |
| MSC-RV-KIT         | RV1 Fastener Kit Spare     |





### Compact Size

RV1 is 70% smaller than an equivalent legacy CZone system. The compact size ensures ease of installation on a wide range of RV/SV's where space is limited. The small footprint has been achieved with all new electronic design and removal of marine specific features.

### Smart Switching Technology

RV1 uses the latest smart MOSFET switching technology. The new MOSFETS include switching, current monitoring and overcurrent protection on a single discreet component whilst providing superior reliability and silent operation. Save cost and time by entering fuse ratings in configuration file, no need to purchase and install physical fuses.

### Internal Battery Monitoring

RV1 includes internal Battery State of Charge monitoring, just connect battery to main studs no additional modules or shunts required. RV1 supports 12V and 24V systems and also has low power draw on sleep mode (<5mA).

### Integration Ready

RV1 features 4 built-in network interfaces including RV-C for seamless integration with Works With CZone Partners. Control and monitor HVAC's and other 3rd party systems directly from a CZone Display, no other gateways or bridge's required.

### Specifications

| RV1                         |  |
|-----------------------------|--|
| Output Channels             | 36 (6 x 10A, 20 x 5A, 10 x 0.5A)   |
| H-Bridge Channels           | 8 (4 x 35A, 4 x 5A)  |
| Input Channels              | 16 x Switch Input (Pos or Neg)<br>16 x Sensor Inputs (0-32 Volt, 0-1000Ω, Pos or Neg Switch) |
| PWM                         | All 10A, 5A & H-Bridge Outputs   |
| Additional Monitoring       | 1 x Volt, Amps & SOC sense on Main Stud  |
| Circuit Protection          | Software Configurable Fuse   |
| Current Monitoring          | All outputs including low & run current detection  |
| Operating Voltage           | 9-32V (with Power Available LED)   |
| Maximum Module Current      | 150A   |
| Power Consumption Max       | 350mA  |
| Power Consumption Sleep     | <5mA   |
| Communication               | NMEA 2000, RV-C, Linbus (Future)   |
| Operating Temperature Range | -5°F to +131°F (-15°C to +55°C)  |
| Storage Temperature Range   | -5°F to +131°F (-40°C to +85°C)  |
| Dimensions<br>W x H x D     | 9.17" x 12.09" x 2.28"<br>233 x 307 x 58mm   |
| Weight                      | 3 lb / 1.4kg   |
| Compliance                  | CE, RCM, NMEA 2000, UK-CA  |

### Related Products



**Waterproof Keypads**  
page 58



**Touch 7 Display**  
page 32





# CZone® Control 1

The Control 1 combines multiple input and output devices into a single module, minimizing installation time, interconnections and footprint. The Control 1 incorporates many of the core features and benefits of the fully featured Combination Output Interface (COI), but has been re-engineered to offer improved cost-per-channel value. The Control 1 features the same rugged design as the fully featured COI with IPX5 water ingress protection and complete mechanical fuse and bypass on all circuits as required by ABYC/CE. Industry standard Deutsch connectors provide "plug and play" installation.



| Part #         | Description                                   |
|----------------|---|
| 80-911-0122-00 | Control 1 Interface (connectors not included) |

| Control 1 Interface          |   |
|------------------------------|---|
| Channels                     | 24  |
| Output Channels High         | 4x 25A  |
| Output Channels Low          | 12 x 10A dimmable   |
| Analog Inputs                | 8x analog inputs: positive or negative switching, 0-32 volt, 0-1000 ohm resistance & 4-20mA current |
| Additional Monitoring        | Volt sense on main positive stud  |
| Current Sensing              | Not available   |
| Circuit Protection           | Mechanical ATC fuse override with alarm   |
| Digital Switch Breakout      | Not available   |
| Maximum Continuous Current   | 150A @ 104°F (40°C) - derating above 104°F (40°C)   |
| Power Supply                 | M8 (5/16") stud positive, M6 (1/4") negative  |
| Voltage                      | 9-32V (with power available LED)  |
| Power Consumption            | Operating (all channels on) = 100mA @ 13.2V<br>Operating (all channels off) = 75mA @ 13.2V          |
| Circuit Bypass               | Mechanical protection/bypass all output channels  |
| Bilge Pump Circuits          | 4 x channels high: integrated manual control & pump running detection                               |
| Ingress Protection           | IPX5 (mounted at 0°, +/-90°)  |
| Communication                | NMEA 2000   |
| Certification                | CE, ABYC, NMEA 2000, ISO8846/SAEJ1171 ignition protected  |
| Weight                       | 4.2lb / 1.9kg   |
| NMEA 2000 PGN Output         | Fluid level, pressure, temperature, battery volts   |
| Connectors                   | Deutsch DTP and DT  |
| Dimensions (including cover) | 13.3" x 9.3" x 2.4"<br>338 x 235 x 62mm   |
| Output Voltage               | 12/24V  |

## Features

- High density 24 channel module delivering reduced cost per channel
- Designed for marine, recreational, and specialty vehicle applications
- Retains core functions available in Combination Output Interface
- Full mechanical fuse protection plus bypass on all circuits as required by ABYC/CE
- Proven, rugged CZone design includes IPX5 Water Ingress Protection and NMEA 2000 certification
- Integrated manual bilge pump control & pump running detection

## Accessories

|                |   |
|----------------|---|
| 80-911-0131-00 | Deutsch connector kit<br>Includes all necessary Deutsch plugs, contacts, wafers & seals |
|----------------|---|

## Related Products



Waterproof Keypads  
page 58



Control 1 Accessories  
page 56



**MFD DISPLAYS**

**NMEA 2000 Network**

**Waterproof Keypad**

**C2 MONITORING**

**C2 DC CONTROL**

**BATTERY**

**8 Analog Inputs**

- DISCHARGE PUMP
- HOUSE BATTERY
- FUEL TANK
- FRESH WATER TANK
- PORT START BATTERY
- STBD START BATTERY
- CONSOLE LIGHT
- WIRELESS RECEIVER

**12 Low Current Outputs**

- MAP LIGHT
- NAV LIGHT
- UNDERWATER LIGHT
- CONSOLE LIGHT
- BILGE LIGHT
- ANCHOR LIGHT
- BAITWELL PUMP
- HORN
- WASHER
- WIPER
- COURTESY LIGHT
- COURTESY LIGHT

**4 High Current Outputs**

- DISCHARGE PUMP
- BILGE PUMP 2
- FRESH WATER PUMP
- BILGE PUMP 1

**Connections:**

- Positive or negative switching
- 0-32V, 0-1000  $\Omega$ , 4-20 mA sensors
- 10A dimmable channels
- 0.5-2.5 mm (20-14 AWG) cables
- 25A channels
- 2.5-6 mm (14-10 AWG) cables



# CZone® Combination Output Interface (COI)

The Combination Output Interface (COI) combines multiple input and output devices into one (1) module, offering a compact and intelligent replacement for traditional DC fuse boxes and circuit breaker panels with digital control and monitoring technology.

Digital control and monitoring systems just became more cost effective and easier to install with the CZone Combination Output Interface (COI). This one box replaces up to five separate units, with convenient Deutsch connectors and IPX5 water resistance, providing a complete CZone system for smaller applications. The COI's high continuous power output (150 amps), plus space, installation time and cost savings also make it the perfect building block for larger systems.

### Quick access and overview

Partnered with either a dedicated CZone display, or with a multi-functional display from one of our integration partners (page 27), the Combination Output Interface heralds a new era in providing simple, intuitive control over the increasingly complex systems found on today's applications.

| Combination Output Interface |  |
|------------------------------|--|
| Channels                     | 30   |
| Output Channels High         | 4 x 25A  |
| Output Channels Low          | 12 x 10A dimmable  |
| Analog Inputs                | 8 x analog inputs: positive or negative switching, 0–32V, 0–1000 ohm resistance & 4–20mA current |
| Additional Monitoring        | Volt sense on main positive stud & NMEA 2000   |
| Current Sensing              | All 16 output channels   |
| Circuit Protection           | Configurable digital software fusing & Mechanical ATC Fuse override with alarm                   |
| Digital Switch Breakout      | Digital Switch Breakout adds 6 digital switch inputs   |
| Maximum Continuous Current   | 150A @ 104°F (40°C) - derating above 104°F (40°C)  |
| Power Supply                 | M8 (5/16") stud positive, M6 (1/4") negative   |
| Voltage                      | 9–32V (with power available LED)   |
| Power Consumption            | 250 mA @ 12V   |
|                              | 180 mA @ 12V standby   |
| Circuit Bypass               | Mechanical protection/bypass all output channels   |
| Bilge Pump Circuits          | 4 x channels high: integrated manual control & pump running detection                            |
| Ingress Protection           | IPX5 (mounted at 0°, +/-90°)   |
| Communication                | NMEA 2000  |
| Certification                | CE, ABYC, NMEA 2000, ISO8846/SAEJ1171 ignition protected   |
| Weight                       | 4.2lb / 1.9kg  |
| NMEA 2000 PGN Output         | Fluid level, pressure, temperature, battery volts  |
| Connectors                   | Deutsch DTP and DT   |
| Dimensions (including cover) | 13.3" x 9.3" x 2.4"<br>338 x 235 x 62mm  |
| Output Voltage               | 12/24V   |



### Features

- High density 30 channel module minimizes installation, interconnections and footprint, while delivering best value per circuit
- Full mechanical fuse protection plus bypass on all circuits as required by ABYC/CE
- Industry standard Deutsch connectors provide fast, plug-n-play installation
- Optional cable cover offers improved aesthetics and greater mounting flexibility
- Proven, rugged CZone design includes IPX5 Water Ingress Protection and NMEA 2000 certification
- High power bilge pump channels allow manual control plus "pump running" feedback from a single channel – without additional wiring
- USB port provides easy system update from USB flash drive

| Part #         | Description  |
|----------------|--|
| 80-911-0119-00 | COI with Connectors<br>(includes 80-911-0131-00—COI Deutsch Connector Kit) |
| 80-911-0120-00 | COI No Connectors  |

| Accessories    |   |
|----------------|---|
| 80-911-0123-00 | COI cable cover<br>Optional cover for clean finish, covers connectors and cables  |
| 80-911-0134-00 | COI Digital Switch Breakout<br>The COI Digital Switch Breakout (DSB) interfaces CZone digital switches with your CZone COI module. Including 2 mtr DSB to COI cable |
| 80-911-0129-00 | 5m COI to DSB cable (16ft)  |
| 80-911-0131-00 | COI Deutsch connector kit (delivered as standard with 80-911-0119-00)<br>Includes all necessary Deutsch plugs, contacts, wafers & seals for COI                     |
| 80-911-0133-00 | Deutsch HDT-48-00 crimp tool<br>Crimp tool for Deutsch contacts   |



## COI Digital Switch Breakout (DSB)



The COI Digital Switch Breakout (DSB) is the interface between the Combination Output Interface (COI) and up to six CZone digital switches (push button or rocker). The digital switches include dimmable LED backlighting, systems on, fault codes and a plug and play harness simplifying installation.

| Part #         | Description                        |
|----------------|------------------------------------|
| 80-911-0134-00 | DSB (Includes 2m COI to DSB Cable) |

### Digital Switch Breakout (DSB)

Connect up to six (6) digital switches to the COI

Support for single or double throw switches (up to 12 programmable switch points)

Uses existing SCI switch cables with options for rocker or push button plugs at various lengths

Digital switches include dimmable backlighting for 'systems on' and fault codes

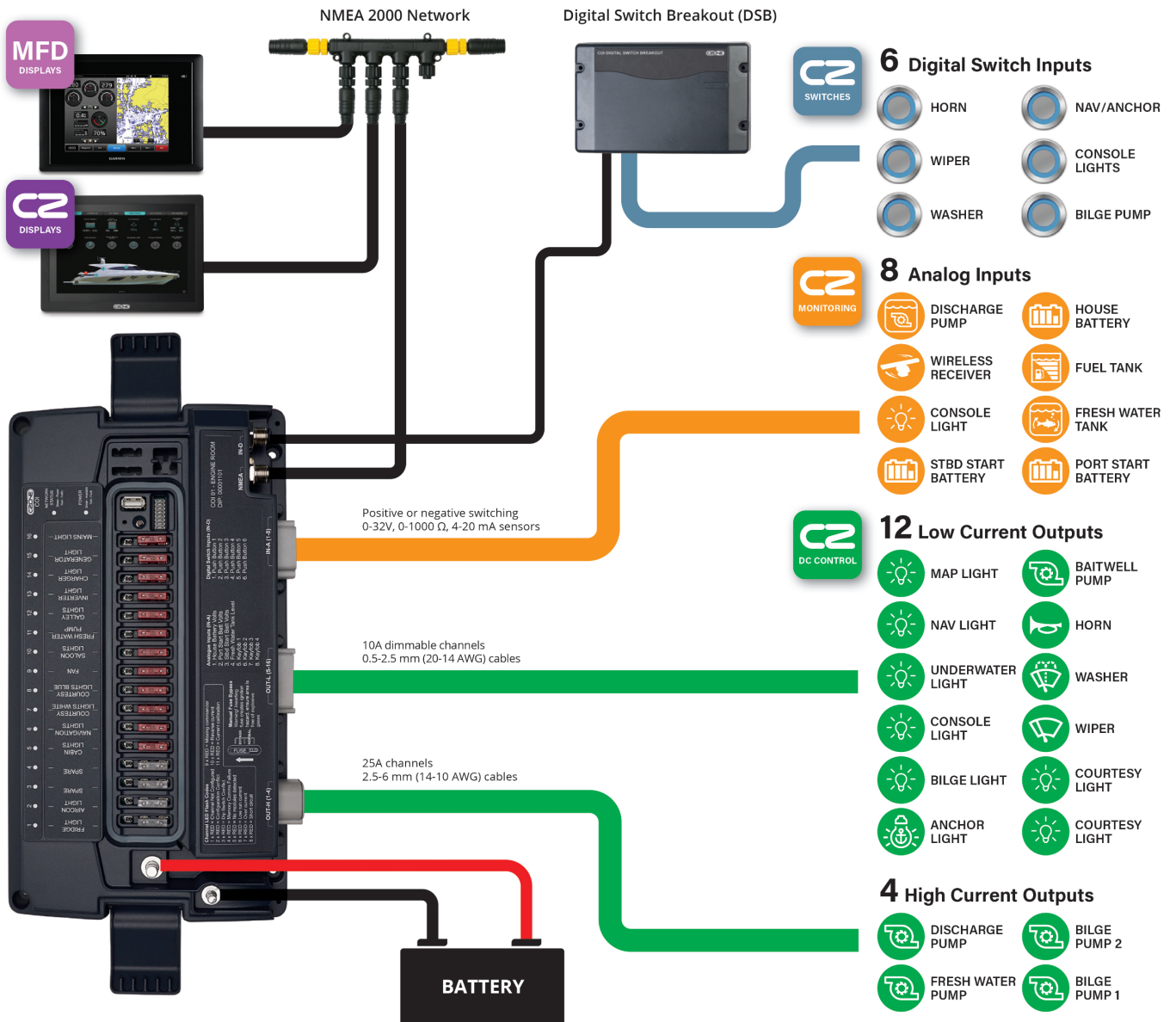
Dimensions 3.9" x 6.1" x 1.7"

HxWxD 100 x 156 x 42 mm

IPX5 water ingress protection

Includes 2m DSB to COI cable

## CZone® COI System Example





# Contact 6 PLUS

Utilising proven CZone® digital switching technology the Contact 6 PLUS is a robust and affordable digital switching solution. Featuring 6x 15A solid state ignition protected fused outputs with circuit bypass for system redundancy. The Contact 6 PLUS can be networked into an existing CZone system or installed stand alone with the CZone Waterproof Keypads or compatible Multi-Function Displays.

| Part #         | Description                               |
|----------------|---|
| 80-911-0160-00 | Contact 6 PLUS Interface                  |
| 80-911-0160-01 | Contact 6 PLUS Interface (interface only) |

| Accessories   |
|---|
| 80-911-0179-00  |
| Contact 6 PLUS Connector & Seal Kit<br>1x 6-position Phoenix Plug (with screws) & 1x Gumboot Seal |

| Contact 6 PLUS              |  |
|-----------------------------|--|
| Circuit Protection          | ATC fuse with blown fuse alarms                          |
| NMEA 2000 Connectivity      | 1 x CAN Micro-C port                                     |
| Output Wire Range           | 24-8 AWG (0.5 - 6mm)                                     |
| Output Channels             | 6 x 15A 12/24V   |
| Maximum Current             | 60A total module current                                 |
| Dimming                     | All channels, PWM @100Hz                                 |
| Power Supply                | M6 (1/4") positive terminal (9-32V)                      |
| Network Supply Voltage      | 9-16V via NMEA 2000                                      |
| Circuit Bypass              | Mechanical fuse bypass on all channels                   |
| Ingress Protection          | IPX5 (mounted vertical)                                  |
| Compliance                  | CE, ABYC, NMEA 2000, ISO8846/SAEJ1171 Ignition Protected |
| Power Consumption Max       | 75mA   |
| Power Consumption Standby   | 0.3mA  |
| Warranty Period             | 2 years  |
| Operating Temperature Range | -5°F to +131°F (-15°C to +55°C)                          |
| Storage Temperature Range   | -40°F to +185°F (-40°C to +85°C)                         |
| Dimensions WxHxD            | 7.97" x 5.06" x 1.77"<br>(202.5 x 128.5 x 45mm)          |
| Weight                      | 1.32lbs/600g   |



## Features

- Circuit dimming & smooth start capability
- Status LED's for all outputs
- Ultra low current draw
- Built-in timer functions for circuits like live bait tanks
- Voltage monitoring on the NMEA 2000 Network
- Built-in Load Shedding allows non-essential loads to be turned off to preserve battery life
- Built-in default configurations selectable via dip switch
- Affordable add-on module to larger CZone systems
- Blown fuse detection and warning



## Related Products



Waterproof Keypads  
page 58



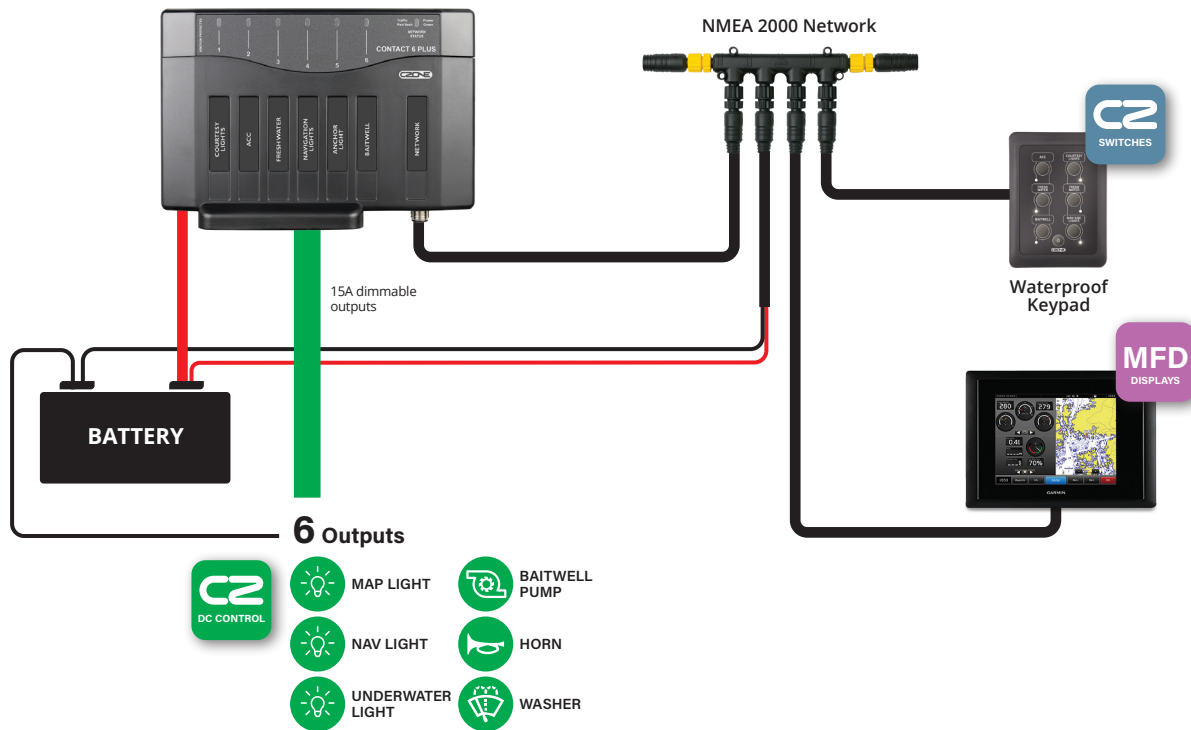
Smart Harnesses  
page 57



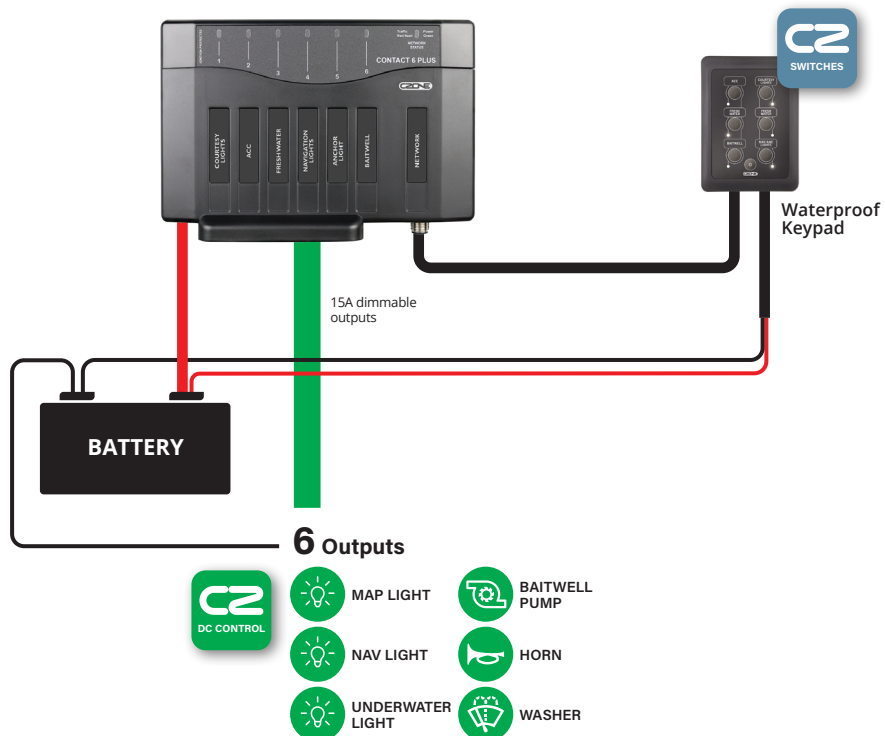
Contact 6 Plus  
Accessories  
page 57



## Contact 6 PLUS Networked System Example



## Contact 6 PLUS Standalone System Example





# Contact 6

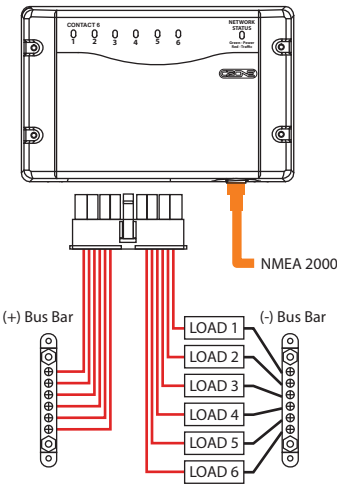
The Contact 6 is a digital control module that can be networked with other CZone products or stand alone. The Contact 6 has six independent channels that are positively or negatively switched and is ideal for smaller marine applications or recreational and specialty vehicles.

| Part #         | Description                           |
|----------------|---------------------------------------|
| 80-911-0139-00 | Contact 6 Fused Interface Only        |
| 80-911-0140-00 | Contact 6 Fused with Seals & Plug     |
| 80-911-0155-00 | Contact 6 Non Fused Interface Only    |
| 80-911-0156-00 | Contact 6 Non Fused with Seals & Plug |

| Accessories    |                           |
|----------------|---------------------------|
| 80-911-0144-00 | Plug Pack* for Contact 6  |
| 80-911-0145-00 | Cable Gland for Contact 6 |

\*Plug pack includes mating TE connector and contacts (TE part numbers listed in specifications)

| Contact 6             | Fused  | Non Fused                   |
|-----------------------|--|-----------------------------|
| Output Channels       | 6x Relay   | 6x Relay                    |
| Output Ratings        | 7.5A max per channel                               | 9A max per channel          |
| Output Voltage        | up to 16V DC                                       | up to 30V DC                |
| LED Status indication | Yes  | Yes                         |
| Parallel              | Yes  | Yes                         |
| Dimming               | No   | No                          |
| Current Sensing       | No   | No                          |
| Circuit Protection    | Internal PTC Fuses (auto-reset)                    | None (must fuse externally) |
| Overcurrent Alarm     | No   | No                          |
| Circuit Bypass        | Yes (electronic)                                   | Yes (electronic)            |
| Connector             | Amp 18-way Connector                               | Amp 18-way Connector        |
| Max Wire Size         | 16 AWG (1mm <sup>2</sup> )                         | 16 AWG (1mm <sup>2</sup> )  |
| Maximum Current       | 30A Continuous                                     | 30A Continuous              |
| Power Consumption     | 35mA (standby)                                     | 35mA (standby)              |
| NMEA Voltage          | 9-16V  | 9-16V                       |
| Ingress Protection    | IPX5   | IPX5                        |
| Communication         | NMEA 2000  | NMEA 2000                   |
| Operating Temp        | 5 °F to 131 °F (-15 °C to +55 °C)                  |                             |
| Certification         | CE, NMEA 2000, ISO8846/SAEJ1171 ignition protected |                             |



## Related Products



Contact 6 Accessories  
page 57





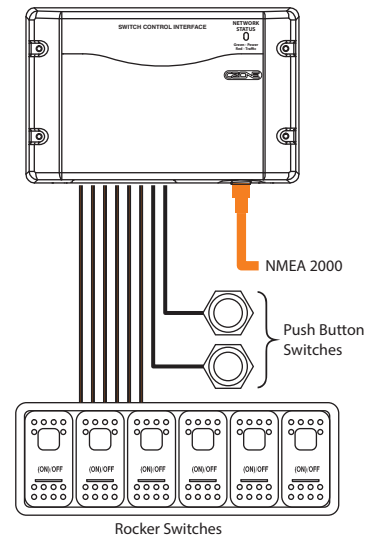
## Switch Control Interface (SCI)

The Switch Control Interface provides an interface between the CZone network and the traditional mechanical switches with which manufacturers and users are familiar. The SCI simplifies your wiring, supports your existing choice of switches, protects against failures and allows for more installation options.

| Part #         | Description                        |
|----------------|------------------------------------|
| 80-911-0011-00 | Switch Control Interface with seal |
| 80-911-0012-00 | Switch Control Interface only      |

### Switch Control Interface (SCI)

|  |
|--|
| Single switch position can control multiple OI channels                              |
| Attaches to switch panels via custom SCI cable                                       |
| Multiple SCI switches can control single OI channel                                  |
| Output for backlighting of switch labels (dimmable)                                  |
| Outputs systems on and function/fault codes to systems on LED of switches (dimmable) |
| Choice of push button or rocker style switch   |
| Dimensions (HxWxD): 3.94" x 6.14" x 1.65" (100x156x42mm)                             |
| IPX5 water ingress protection  |
| Programmable switch types  |
| 8 inputs per module (16 individual controls)   |
| Sequential button press functionality  |
| Choice of push button or rocker style switch   |



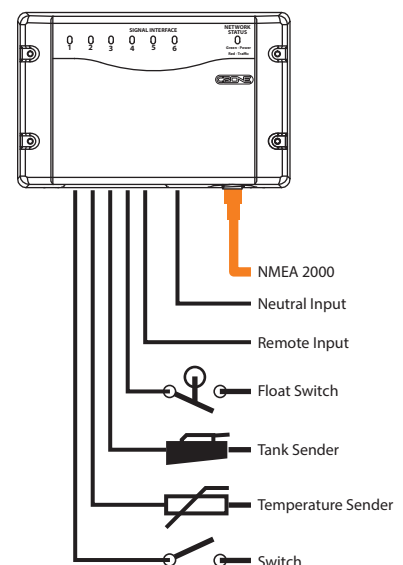
## Signal Interface (SI)

The Signal Interface connects the CZone system to your external sensors, alarms and switching devices. The SI allows intelligent, automated operation of circuits depending on the state of the input.

| Part #         | Description                            |
|----------------|--|
| 80-911-0013-00 | Signal Interface with seals, connector |
| 80-911-0014-00 | Signal Interface only                  |

### Signal Interface (SI)

|   |
|---|
| Accepts inputs from traditional switch types being used to control outputs  |
| Accepts inputs from switches to trigger alarm i.e. high water float switch  |
| Accepts inputs from industry-standard tank senders (0-5V, 10-180 Ohm, 240-33 Ohm)   |
| Accepts inputs from general voltaic or resistive signals, can be used for controlling outputs or to display a physical position i.e. show a hatch is partially open |
| LED status indicators for each input  |
| Dimensions (HxWxD): 3.94" x 6.14" x 1.65" (100x156x42mm)  |
| IPX5 water ingress protection   |
| Outputs standard NMEA 2000 fluid, temperature and pressure sentences  |
| Resistive input range 0-1000 Ohms   |
| Voltage sensing input range 0-34V DC  |



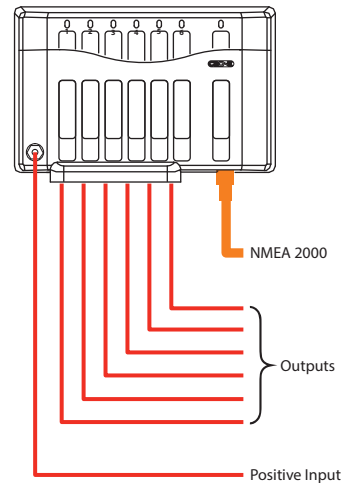


# Output Interface (OI)

The Output Interface provides an intelligent replacement for traditional circuit breaker and fuse panels. It has six high power, robust output channels which provide the power supply, control and fusing for a circuit as well as integrating many other features such as timers and dimmers. Connection to the unit is simple: a large 6-way plug allows connections to cables of up to 16 mm² (6 AWG) in size, or multiple smaller conductors. No need for specialized crimp terminals and expensive crimp tools to be carried for terminations to CZone, just a blade screwdriver. A protective flexible boot offers protection to the connections from harsh environment conditions.

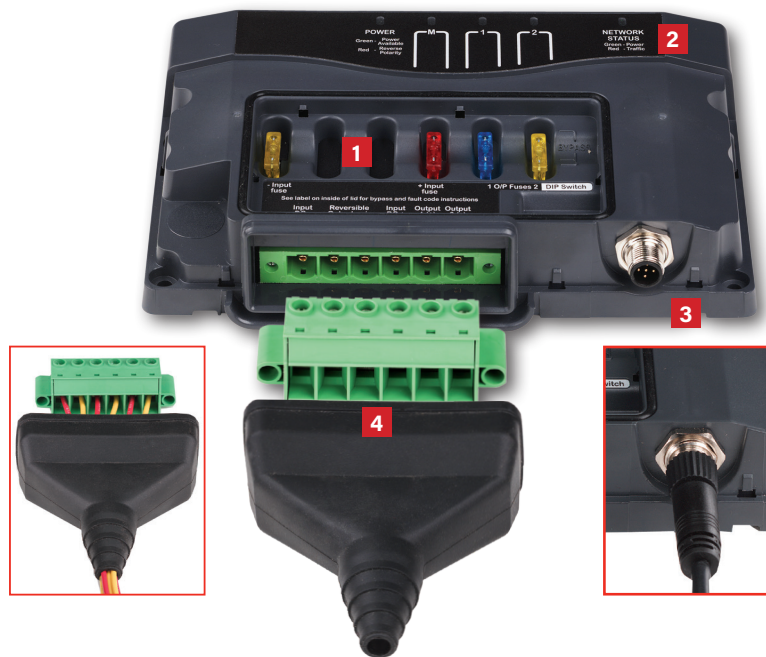
| Part #         | Description   |
|----------------|---|
| 80-911-0009-00 | Output interface with connector and protective boot |
| 80-911-0010-00 | Output interface only                               |

| Output Interface (OI)   |
|---|
| 4 levels of backup fusing including manual override (as required by ABYC)   |
| Multiple channels can be bridged together to offer higher current switching |
| Power consumption 12V: 85 mA  |
| Dimensions (HxWxD): 5" x 7.87" x 1.75" (128 x 200 x 45mm)                   |
| Small, non-metallic, easy to install case                                   |
| IPX5 water ingress protection   |
| 6 x 20A circuits  |
| Programmable software 'fuse' sizes  |
| CE, ABYC, NMEA 2000, ISO8846/SAEJ1171 ignition protected                    |



## Output Interface Parts

- 1 Fuses for emergency circuit bypass
- 2 Network status indicator
- 3 NMEA 2000 connector
- 4 Connector and protective boot





## Motor Output Interface (MOI)

The Motor Output Interface has an output pair for controlling DC motors which require a reversal of polarity to change the direction of their mechanical operation. For example, a DC motor for an electric window mechanism will move the window up or down depending on the polarity of the feed to the motor. The MOI also incorporates two standard output channels as found on the OI.

| Part #         | Description   |
|----------------|---|
| 80-911-0007-00 | Motor Output Interface with connector and protective boot |
| 80-911-0008-00 | Motor Output Interface only                               |

### Motor Output Interface (MOI)

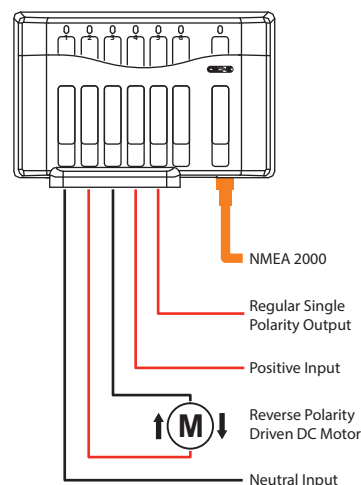
Single motor control and two normal channels per unit, 20A per output

Built-in circuit protection

IPX5 water ingress protection

Dimensions (HxWxD): 5" x 7.87" x 1.75" (128 x 200 x 45mm)

CE, ABYC, NMEA 2000, ISO8846/SAEJ1171 ignition protected



## Meter Interface (MI)

The Meter Interface accepts inputs from external AC and DC power metering sensors such as: AC and DC voltage and amps, AC kWatts, and DC battery capacity in amp hours and percentage remaining. All with user definable high and low alarms.

| Part #         | Description                         |
|----------------|-------------------------------------|
| 80-911-0005-00 | Meter Interface, with seal and plug |
| 80-911-0006-00 | Meter Interface only                |

### Meter Interface (MI)

#### General

Dimensions (HxWxD): 6.14" x 3.94" x 1.65" (156 x 100 x 42mm)

IPX5 water ingress protection

Outputs standard NMEA 2000 power monitoring sentences

#### AC

3 x AC voltage inputs (multi voltage)

2 x AC current inputs

Calculates true RMS power

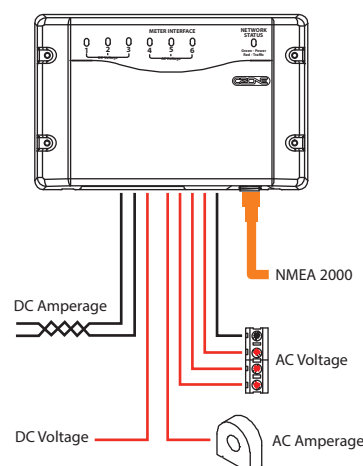
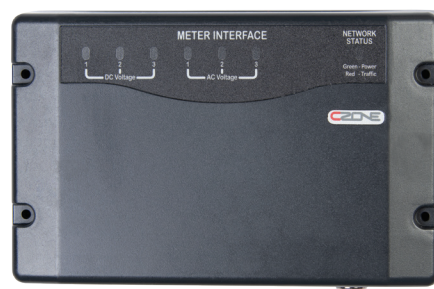
#### DC

3 x DC voltage inputs (multi voltage)

2 x DC current inputs

Calculates battery capacity as ampere hours and percentage charge remaining

Resolution for current metering down to 0.1A





# CZone® AC Output Interface (ACOI)

Simplify the way you network, monitor and control onboard AC circuits. The AC Output Interface does it all and provides circuit protection for all onboard AC devices. It is easy to install, configure and operate the digital control system with pre-wired components for quick connections. This gives you a customizable solution to suit unique installation and application needs, including 'night running' or 'at anchor' as well as control at multiple locations. It has eight outputs (up to 50A each), supports multiple pole designs and multiple separate buss feeds. To make it easy, status LEDs and manual bypass are located right at the enclosure.

ACOI is a custom ordered product. Each Customer's ACOI will vary based on their requirements. Contact your account manager for requirements.

| AC Output Interface (ACOI)   |
|--|
| Circuit status and run current displayed for each circuit                        |
| Customizable to suit installation requirements                                   |
| Pre-wired for quick connection   |
| Staggered start up of loads  |
| 110V, 240V, 110/220V   |
| Supports multiple pole designs, i.e. double, triple, four pole                   |
| Utilizes standard DIN rail mounted components for circuit protection and control |
| Can support two separate buss feeds (i.e. 2 load groups) in one box              |
| Delay before circuits come on to allow generators to come up to speed            |
| Provides circuit protection and control  |
| Status LEDs at enclosure   |
| Manual bypass at enclosure   |
| Provision for MCB/RCDs   |
| Timers   |
| 50 or 60 Hz  |



## ACOI Standard

- 8 x 50A relays protected with 10A MCB's
- Pre-wired
- Current monitoring on each channel
- IPX5 enclosure
- Dimensions (HxWxD):  
17" x 10.8" x 7.3" / 430 x 276 x 186mm

Part # **80-911-0069-00** This part number will change.  
This should only be used for quoting purposes.



## ACOI Dinrail Mount

- 8 x 50A relays
- Fitted with 600 mm tails
- Cost effective solution, own enclosures and MCB's can be sourced
- Current monitoring on each channel
- Dimensions (HxWxD):  
3" x 6.3" x 2.4" / 77 x 160 x 60mm

**80-911-0096-00** Black tails (US)  
**80-911-0082-00** Brown tails (APAC/Europe)



## CZone® AC Mains Interface (ACMI)

A sophisticated source selector or transfer switch, the AC Mains Interface enables the user to specify which AC power source is actively supplying power to the ship (generator, inverter, or shore power). Developed for use with the CZone digital control system, but may also be used as a stand-alone device. The ACMI can be programmed to automatically change the supply source when the current rating is exceeded, and includes a manual override and user-friendly display screen that ensures easy current, voltage, frequency, and power monitoring. Other features include six monitored, over-current protected main power inputs of up to 100A each, as well as two outputs, which enables two separate load groups and a parallel option for use with a single source. To simplify installation, the ACMI comes pre-wired for easy installation.



ACMI is a custom ordered product. Each Customer's ACMI will vary based on their requirements. Contact your account manager for requirements.

| AC Mains Interface (ACMI)  |
|--|
| 6 Source inputs up to 125A (eg. 2x shore power, 2x generator)  |
| Monitoring of channel status (on/off/fault)  |
| Provides circuit protection and control  |
| Manual override at enclosure and via remote panel  |
| Customizable to suit installation requirements   |
| Supports multiple pole designs, i.e. double, triple, four pole   |
| 110V, 240V, 110/220V   |
| IPX5 enclosure   |
| Utilizes standard DIN rail mounted components for circuit protection and control                             |
| Current, voltage, frequency and power monitoring incorporated (six channels)                                 |
| Physical and software lockouts between source controls (prevents two sources from becoming connected)        |
| Reverse polarity and bad power supply alarms including auto disconnect and lockouts                          |
| 2 Outputs (load groups), allows for two separate load groups with parallel option for use with single source |
| Auto changeover (non-seamless)   |
| Provision for RCD's  |
| Load shedding  |
| Status LEDs at enclosure   |
| Pre-wired for quick connection   |
| Timer controls   |
| 50 or 60 Hz  |

### ACMI Standard

- Three (3) Inputs—1x 16A Shore Power, 1x 32A Shore Power, 1x 50A Generator with Parallel
- Two (2) Load Groups—40A
- 230V AC 50Hz
- Current, voltage, frequency and power monitoring incorporated
- Manual override panel on enclosure
- Dimensions (HxWxD):  
17" x 21.3" x 7.3" / 430 x 540 x 186mm

**Part # 80-911-0068-00** This part number will change. This should only be used for quoting purposes.



# ACCESSORIES

## NMEA 2000 Approved Cables & Connectors



54

NMEA 2000 approved cables and connectors for creating or expanding an NMEA 2000 network quickly and easily. Ends are color coded to make identifying the power cable or connector easy. Premium quality. Universal fit.

## CZone Installation Accessories



55

Various components that are necessary to properly install a CZone digital control and monitoring system.

## RV-C Cabling



56

RV-C cables service the increased demand of CZone installations in the RV market and offers RV builders an alternative to NMEA 2000 & Cable networks in applications where waterproofing is not required.

## Waterproof Keypads



58

The CZone Waterproof Keypad range features dimmable RGB circuit backlighting in a robust IPX7 waterproof enclosure and is available in portrait and landscape orientations.





# ACCESSORIES

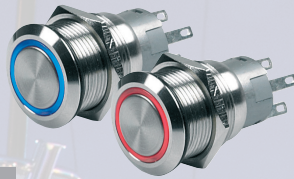
Wireless Interface



59

Allows your iPad® to interface with an onboard digital control and monitoring system for full monitoring and control of the electrical equipment via a clear and intuitive display. The interface acts as a hub for the seamless connection between the two popular digital control and monitoring protocols of MasterBus and CZone®.

Push Button Switches



60

3.5 volt switches designed to work exclusively with CZone® systems. Momentary and latched actuation options are available.

CZone® Wireless Remote Kit



61

Simple to set up, wireless remote control. Buttons are configurable for momentary on or latching control of circuits.





# NMEA 2000 Network Components



## Single Tee Connector

Connects a single device into the NMEA backbone.

Part # 80-911-0029-00



## 2 Way Tee Connector

Connects multiple devices into the NMEA backbone.

Part # 80-911-0047-00



## 4 Way Tee Connector

Connects multiple devices into the NMEA backbone.

Part # 80-911-0048-00



## Terminating Resistors

Use at either end of the NMEA backbone to complete the network. Each network must have a male and female terminator.

Part # 80-911-0031-00 Male

Part # 80-911-0030-00 Female



## 90° Elbow Connector

Space saving connector for modules, displays and cabling connections.

Part # 80-911-0046-00



## Power Isolator

Used for isolating power between two independent NMEA 2000 networks.

Part # 80-911-0137-00



## Power Cable

Provides power to the NMEA 2000 network. 18 AWG/0.8mm<sup>2</sup> conductors meet ABYC/CE standard for minimum conductor size plus add connection to protect the network from electromagnetic interference.

Part # 80-911-0028-00 3.2 ft 1 m



## Backbone Cable

Special low volt drop Backbone Cable ensures ultimate reliability for your NMEA 2000 network.

Part # 80-911-0026-00 1.6 ft .5 m

Part # 80-911-0027-00 6.5 ft 2 m

Part # 80-911-0024-00 16 ft 5 m

Part # 80-911-0210-00 26.3 ft 8 m

Part # 80-911-0025-00 32 ft 10 m



## Drop Cable

Thinner, more flexible Drop Cables connect individual devices to the NMEA 2000 network. New 3 ft/1m length adds convenience.

Part # 80-911-0116-00 1.6 ft .5 m

Part # 80-911-0117-00 3.2 ft 1 m

Part # 80-911-0118-00 6.5 ft 2 m

Part # 80-911-0211-00 9.8 ft 3 m

Part # 80-911-0212-00 13.1 ft 4 m

Part # 80-911-0115-00 16 ft 5 m

Part # 80-911-0213-00 19.7 ft 6 m





### Through Bulkhead Adaptor

For use on the backbone to transition through a waterproof bulkhead or can be used to connect removable equipment such as a computer interface.

- NMEA 2000 Network

Part # 80-911-0052-00



80-911-0054-00

80-911-0053-00

### Field Serviceable Connectors

For terminating bare NMEA cable.

- NMEA 2000 Network

Part # 80-911-0054-00 Male

Part # 80-911-0053-00 Female



80-911-0050-00

80-911-0051-00

### Blanking Caps

Protects unused Tee Connector from dust and water.

Part # 80-911-0050-00 Male

Part # 80-911-0051-00 Female

## Terminal Blocks, Glands, Seals, & Hole Plugs



### Cable Gland, MI

- Silicone

Part # 80-911-0033-00



### Cable Gland for SCI

- Silicone

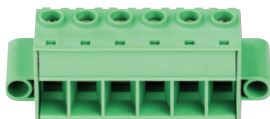
Part # 80-911-0035-00



### Cable Gland SI

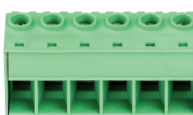
- Silicone

Part # 80-911-0036-00



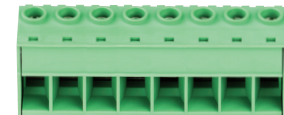
### Terminal Block OI/MOI, 6 Way

Part # 80-911-0041-00



### Terminal Block for MI, 6 Way

Part # 80-911-0042-00



### Terminal Block SI/MI, 8 Way

Part # 80-911-0043-00



### Seal Boot for OI/MOI, 6-Wire

- Black silicone

Part # 80-911-0034-00



### Hole Plugs

- 3.2 mm for MI and SI cable glands
- 5 mm for SCI cable glands

Part # 80-911-0016-00 3.2 mm

Part # 80-911-0017-00 5 mm



## RV-C Cabling **NEW**

RV-C specific cabling and adapters will work with existing and future CZone products with the aim of reducing the overall network cost for RV builders. RV-C cables service the increased demand of CZone installations in the RV market and offers RV builders an alternative to NMEA 2000 & Cable networks in applications where waterproofing is not required. RV-C is a CAN based communication profile for recreational vehicles.

*RV-C Cabling is for RV applications ONLY*



### RV-C Terminator **NEW**

- This standard RV-C connector provides termination resistance for one end of the backbone of the network.

Part # 80-911-0207-00



### RV-C 4-Way Tee **NEW**

- Connects RV-C drop cables and backbone cables.
- Multiple drop cables to be connected without additional backbone cable.
- RV-C approved. Universal and compatible with other RV-C cabling products.

Part # 80-911-0206-00



### RV-C to NMEA 2000 Drop Cable **NEW**

Part # 80-911-0202-00 3.2 ft 1 m

### NMEA 2000 to RV-C Drop Cable **NEW**

Part # 80-911-0208-00 3.2 ft 1 m  
Part # 80-911-0209-00 6.5 ft 2 m

### RV-C to RV-C Backbone Drop Cable **NEW**

Part # 80-911-0241-00 1.6 ft .5 m  
Part # 80-911-0242-00 3.2 ft 1 m  
Part # 80-911-0243-00 6.5 ft 2 m  
Part # 80-911-0244-00 16 ft 5 m  
Part # 80-911-0245-00 26.3 ft 8 m

### RV-C Power Isolator Cable **NEW**

Part # 80-911-0247-00 3.2 ft 1 m

### RV-C Power Cable **NEW**

Part # 80-911-0246-00 3.2 ft 1 m

## Control 1, COI & DSB Accessories

Accessories & spares for Control 1, Combination Output Interface (COI) and Digital Switch Breakout (DSB).



### COI Cable Cover

Part # 80-911-0123-00



### COI/Control 1 Deutsch Connector Kit

Part # 80-911-0131-00



### Deutsch HDT-48-00 Crimp Tool

Part # 80-911-0133-00



### COI to DSB Cable, 5m

Part # 80-911-0129-00

## Touch 10 Accessories



### Spare Power Cable

Supplies power for Touch 10 display

- 2 pin, 6.5 ft (2 m)

Part # 80-911-0032-00

## Touch 7 Accessories



**Mounting Bracket Kit**

Part # 80-911-0201-00



**1M NMEA 2000 Drop Cable**

Part # 80-911-0202-00



**Power Connector**

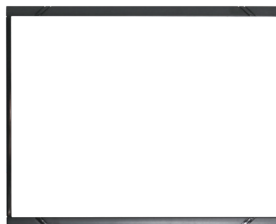
Part # 80-911-0203-00

## Touch 5 Accessories



**Sun Cover**

Part # 80-911-0132-00



**Bezel**

Part # 80-911-0147-00



**NMEA/Power Cable**

Part # 80-911-0148-00

## Contact 6 Accessories



**Cable Gland**

Part # 80-911-0145-00



**Plug pack**

Part # 80-911-0144-00

## Contact 6 PLUS Accessories

### Connector & Seal Kit

This kit contains additional or replacement parts suitable for the Contact 6 PLUS Module (80-911-0160-00).

- 1x 6-position Phoenix Plug (with screws)
- 1x Gumboot Seal

Part # 80-911-0179-00



## CZone® Smart Harnesses

### 2 & 3 Module Smart Harness

CZone utilizes the industry standard NMEA 2000 Network for its communication protocol. The new 2 & 3 Module Smart Harnesses replace the need for a complete network backbone in a small system, meaning a robust, simpler and more cost-effective installation. The Smart Harness is designed for Contact 6 PLUS, but can also be fitted independent to any CZone installation where a small network comprising 2 or 3 devices is required.

- All in one smart-harness for straight forward plug and play installation
- 3 Module Smart Harness connects two 6-button Waterproof Keypads to the Contact 6 PLUS Module
- Not required when connecting to NMEA 2000 Network



80-911-0171-00

80-911-0172-00



# CZone® Waterproof Keypads

- IPX7 waterproof low profile keypads
- Status LEDs with blown fuse fault indication
- Dimmable RGB circuit back lighting
- Available in portrait or landscape with 3 mounting options—front, rear and flush mount
- Easy to install with a single plug connection



**80-911-0162-00**  
6-way landscape



**80-911-0165-00**  
12-way landscape



**80-911-0163-00**  
6-way portrait



**80-911-0164-00**  
12-way portrait

## Custom Keypad Label Options

CZone waterproof keypads can be customized to suit any installation environment. From simple circuit labels to 100% customizable overlays. Custom graphical overlays can be designed to mimic the panels they will be mounted into, making the waterproof keypads seamlessly integrate into any installation. Editable templates will be provided to OEM's so their graphic designers have the exact dimensions and button layout.

Contact your CZone agent for instructions on how to order keypads with custom overlays.



## Label Set for Waterproof Keypad

Part # SET-KEYPAD-1

|                |                 |                |                |                 |                |
|----------------|-----------------|----------------|----------------|-----------------|----------------|
| ACC            | COURTESY LIGHTS | FISHING LIGHTS | MODE 1         | RAW WATER       | TRIM TABS      |
| AERATOR        | CUP HOLDER      | FLOOD LIGHTS   | MODE 2         | SONDER          | TROLLING MOTOR |
| ANCHOR LIGHT   | DC OUTLETS      | FLYBRIDGE      | NAV LIGHTS     | SPARE 1         | TUNA TUBES     |
| AUTO PILOT     | DECK LIGHTS     | FRESH WATER    | NAV/ANC LIGHTS | SPARE 2         | U/WATER LIGHTS |
| BAITWELL       | DECK WASH       | GPS            | ON/OFF         | SPOT LIGHTS     | UP             |
| BILGE PUMP 1   | DOCKING LIGHTS  | HORN           | PORT LIGHTS    | SPREADER LIGHTS | VHF            |
| BILGE PUMP 2   | DOWN RIGGER     | INST. LIGHTS   | PUMP 1         | STBD LIGHTS     | WASH DOWN      |
| BLOWER         | DOWN            | INVERTER       | PUMP 2         | STEREO          | WASHER         |
| CABIN LIGHTS   | ELEC-TRONICS    | LIGHTS         | PUMPOUT        | TIMER           | WINCH          |
| COCKPIT LIGHTS | ENGINE ROOM     | LIVEWELL       | RADIO          | TOILET          | WIPERS         |

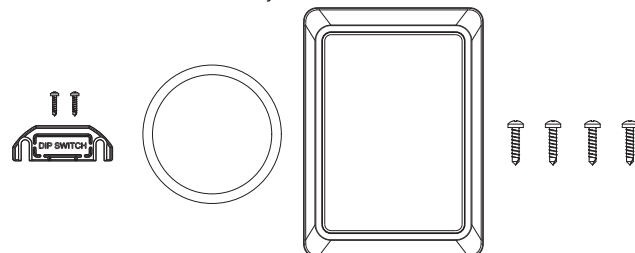
## Label Set for RV Keypad

Part # SET-KEYPAD-RV

|               |                |                   |                 |                 |                 |
|---------------|----------------|-------------------|-----------------|-----------------|-----------------|
| A/C           | BED LIFT       | ENSUITE LIGHTS    | KITCHEN LIGHTS  | ROOF VENTS      | STEP LIGHT      |
| ANTENNA DOWN  | BED LIGHTS     | EXTERIOR LIGHTS   | LOCKER LIGHTS   | SATELLITE       | STEREO          |
| ANTENNA POWER | BENCH LIGHTS   | FRESH WATER       | LOUNGE LIGHTS   | SHOWER FAN      | STORAGE MODE    |
| ANTENNA UP    | BOX LIGHTS     | FRIDGE            | MAIN WATER      | SLEEP MODE      | TOILET TRANSFER |
| AWNING IN     | CABIN FANS     | FRONT TOOL BOX    | NIGHT MODE      | SLIDE OUT IN    | TRAVEL MODE     |
| AWNING LIGHT  | CABIN HEATER   | GREY WATER        | OUTDOOR POWER   | SLIDE OUT OUT   | TUNNEL LIGHT    |
| AWNING LT D/S | CAMP MODE      | HEATER            | OVERHEAD LIGHTS | SPOTLIGHT FRONT | TUNNEL POWER    |
| AWNING OUT    | CEILING LIGHTS | JACK DOWN         | RANGE HOOD      | SPOTLIGHT REAR  | TV/DVD          |
| BATH LIGHT    | DC ACC.        | JACK UP           | READING LIGHTS  | STEP DOWN       | USB PORTS       |
| BBQ           | DOWN LIGHTS    | KICK PANEL LIGHTS | REAR BOX LIGHTS | STEP UP         | WATER HEATER    |

## Waterproof Keypad Spare Parts Kit

Part # 80-911-0174-00 6-way  
Part # 80-911-0175-00 12-way



## Network Interfaces



### CZone® Network Bridge Interface

For isolating sections of an NMEA 2000 network to decrease standby current draw. Isolation when bridging between two CAN networks, (eg connecting CZone to Simrad Simnet). For expansion of the NMEA 2000 network when the maximum node limit for the network has been reached (node = any device connected to the NMEA 2000 network). Once fitted, 40 additional nodes can be added.

**Part # 80-911-0057-00**



### MASTERVOLT CZone®-MasterBus Bridge Interface

The CZone MasterBus Bridge Interface physically connects the MasterBus and CZone networks together, enabling the two networks to communicate and act as one. This provides seamless control and monitoring of Mastervolt power electronics from CZone displays or partner products.

#### Features:

- Control of Mastervolt inverters and chargers from CZone displays, switches or integrated products
- Display MasterBus acquired systems information such as tank and power levels on CZone displays
- Transfer of alarms between both systems

**Part # 80-911-0072-00**

|                    |  |
|--------------------|--|
| Dimensions (hwxwd) | 2.7" x 2.7" x 2" / 69 x 69 x 50 mm       |
| Weight             | 0.32 lb / 145 g                          |
| Protection         | IP65                                     |
| Includes           | Cable adapter, Terminator, User's manual |

More info  
on page 34

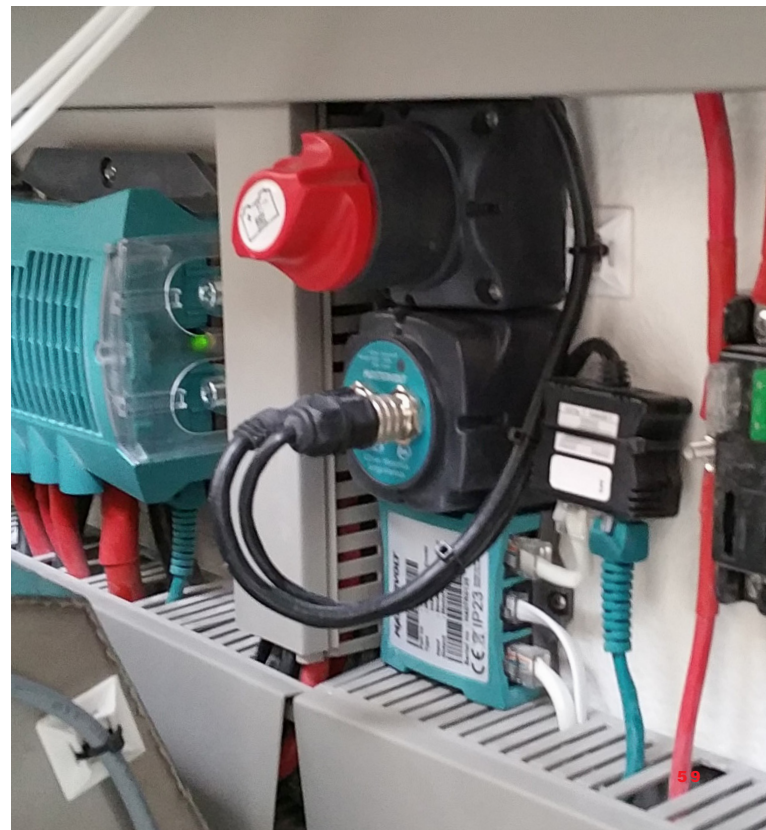


### MASTERVOLT Wireless Interface

Wireless monitoring and control of onboard systems from your tablet. Allows your tablet to interface with an onboard digital control and monitoring system for full monitoring and control of the electrical equipment via a clear and intuitive display. The interface acts as a hub for the seamless connection between MasterBus and CZone.

**Part # 80-911-0090-00** Wireless Interface

**Part # 80-911-0095-00** WI MasterBus connector  
(required for MasterBus connection)





## Push Button Switches & Accessories



### Push Buttons

For use with CZone systems only (3.5V)

- Momentary and latched actuation options available
- Blue and red circuit status indication LED options
- 19 mm mounting hole
- IP67 environmental protection
- Stainless Steel components
- Maximum 5 amps each

|                       |                   |          |
|-----------------------|-------------------|----------|
| Part # 80-911-0060-00 | Momentary (ON)OFF | red LED  |
| Part # 80-911-0063-00 | Latching ON/OFF   | red LED  |
| Part # 80-911-0062-00 | Momentary (ON)OFF | blue LED |
| Part # 80-911-0061-00 | Latching ON/OFF   | blue LED |

### Push Button Cable Assembly

Suitable for Switch Control Interface (SCI) and Digital Switch Breakout (DSB) compatible with push buttons.

|                       |          |
|-----------------------|----------|
| Part # 80-911-0085-01 | .5 meter |
| Part # 80-911-0086-01 | 1 meter  |
| Part # 80-911-0087-01 | 2 meter  |
| Part # 80-911-0088-01 | 5 meter  |
| Part # 80-911-0089-01 | 8 meter  |

## Rocker Switches & Accessories



### Custom Rocker Switches

Red or blue systems in operation and backlighting LED's.

|                       |                   |          |
|-----------------------|-------------------|----------|
| Part # 80-911-0037-00 | ON/OFF            | red LED  |
| Part # 80-911-0038-00 | mom ON/OFF        | red LED  |
| Part # 80-911-0039-00 | ON/OFF/ON         | red LED  |
| Part # 80-911-0040-00 | mom ON/OFF/mom ON | red LED  |
| Part # 80-911-0066-00 | mom ON/OFF        | blue LED |
| Part # 80-911-0071-00 | mom ON/OFF/mom ON | blue LED |

### Rocker Switch Cable Assembly

Suitable for Switch Control Interface (SCI) and Digital Switch Breakout (DSB) compatible with rocker switches.

|                       |          |
|-----------------------|----------|
| Part # 80-911-0018-00 | .5 meter |
| Part # 80-911-0019-00 | 1 meter  |
| Part # 80-911-0020-00 | 2 meter  |
| Part # 80-911-0021-00 | 3 meter  |
| Part # 80-911-0022-00 | 4 meter  |
| Part # 80-911-0023-00 | 5 meter  |

### Contura and Rocker Switch Mounting Brackets

- Mount multiple Contura or Rocker style switches in one opening
- Provides a neat, finished appearance on dash or panel surfaces



1001718  
Plug



1001717  
Single



1001703  
End (L or R)



1001702  
Double



1001701  
Triple (plug included)

## Misc Accessories



### CZone® Wireless Remote Kit

Simple to set up, wireless remote control. Buttons are configurable for momentary on or latching control of circuits.

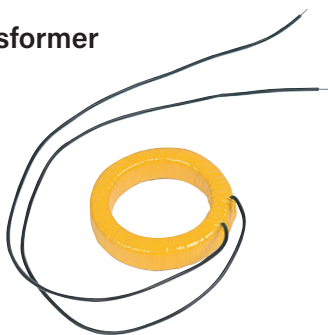
- 250 ft (80 m) operating range
- Kit includes two key fobs and a receiver box
- Rolling code
- Key fob available separately (80-911-0070-00)

**Part # 80-911-0045-00**

### Heavy-duty Current Transformer

- Maximum current 150A AC
- CT-HD is available for systems with large mains cables, too large for CT-10-3 (ordered separately)
- CT-HD dimensions: Ø 1.85 x 0.4" (Ø 47 x 10.5 mm)
- Hole size: 1.25" (32 mm)

**Part # CT-HD**



### AC Transducer

- Includes 3 voltage transformers for up to 3 voltage inputs
- 2.75" x 5.5" x 2" (69 x 140 x 50 mm)
- Used for AC voltage measurement

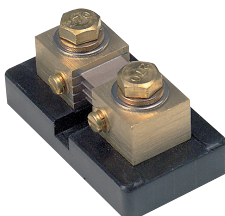
**Part # AC-VSEN-4**



### DC Current Shunt

- 450A / 50 mV shunt supplied with 80-600-0021-00
- 3.25"L x 2.8"W x 2.75"H (83L x 45W x 44H mm)

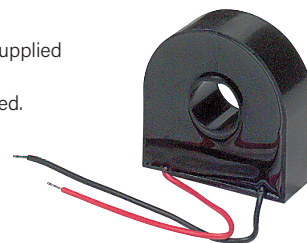
**Part # LB-450-50**



### Current Transformer

- Maximum current 150A AC
- One CT-10-3 current transformer is supplied with ACSM. If a twin line system is in use, a second CT must be ordered.
- Dimensions: 1.5" x 1.55" x .55" (37.5 x 39.2 x 13.7mm)
- Hole size: 0.5" (12mm)

**Part # CT-10-3**



### Surge Protection Module

Protect your electronics from becoming damaged by harmful high voltage spikes. When fitted to the battery supply these modules look for sudden increases in voltage then switch into protection mode to absorb and suppress the high energy spike.

**Part # 80-707-0004-00 12V DC**

**Part # 80-707-0005-00 24V DC**



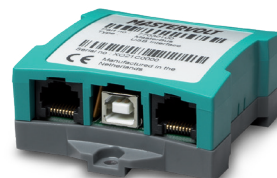
### MASTERVOLT

#### USB to CAN Adapter

Connects PC to the CZone network for configuration and system set up.

*Note: Mastervolt USB Interface now compatible with CZone configuration tool.*

**Part # 77030100**



### MASTERVOLT

#### Mastervolt-CZone® Drop Cables

Adapter cable for connecting Mastervolt devices with CZone support to the CZone or NMEA 2000 network.

**Part # 77060050 0.5 m**

**Part # 77060100 1 m**

**Part # 77060200 2 m**

**Part # 77060500 5 m**





# Index

| Part #         | Page   | Part #         | Page   | Part #         | Page       | Part #         | Page       |
|----------------|--------|----------------|--------|----------------|------------|----------------|------------|
| 1001701        | 60     | 80-911-0032-00 | 31, 56 | 80-911-0095-00 | 34, 59     | 80-911-0200-00 | 32         |
| 1001702        | 60     | 80-911-0033-00 | 55     | 80-911-0096-00 | 50         | 80-911-0201-00 | 32, 57     |
| 1001703        | 60     | 80-911-0034-00 | 55     | 80-911-0114-00 | 31         | 80-911-0202-00 | 32, 56, 57 |
| 1001717        | 60     | 80-911-0035-00 | 55     | 80-911-0115-00 | 54         | 80-911-0203-00 | 32, 57     |
| 1001718        | 60     | 80-911-0036-00 | 55     | 80-911-0116-00 | 54         | 80-911-0206-00 | 56         |
| 77030100       | 35, 61 | 80-911-0037-00 | 60     | 80-911-0117-00 | 54         | 80-911-0207-00 | 56         |
| 77060050       | 61     | 80-911-0038-00 | 60     | 80-911-0118-00 | 54         | 80-911-0208-00 | 56         |
| 77060100       | 61     | 80-911-0039-00 | 60     | 80-911-0119-00 | 42         | 80-911-0209-00 | 56         |
| 77060200       | 61     | 80-911-0040-00 | 60     | 80-911-0120-00 | 42         | 80-911-0210-00 | 54         |
| 77060500       | 61     | 80-911-0041-00 | 55     | 80-911-0122-00 | 40         | 80-911-0211-00 | 54         |
| 80-707-0004-00 | 61     | 80-911-0042-00 | 55     | 80-911-0123-00 | 42, 56     | 80-911-0212-00 | 54         |
| 80-707-0005-00 | 61     | 80-911-0043-00 | 55     | 80-911-0124-00 | 33         | 80-911-0213-00 | 54         |
| 80-911-0005-00 | 49     | 80-911-0045-00 | 61     | 80-911-0129-00 | 42, 56     | 80-911-0216-00 | 31         |
| 80-911-0006-00 | 49     | 80-911-0046-00 | 54     | 80-911-0131-00 | 40, 42, 56 | 80-911-0221-00 | 38         |
| 80-911-0007-00 | 49     | 80-911-0047-00 | 54     | 80-911-0132-00 | 57         | 80-911-0225-00 | 38         |
| 80-911-0008-00 | 49     | 80-911-0048-00 | 54     | 80-911-0133-00 | 42, 56     | 80-911-0230-00 | 36         |
| 80-911-0009-00 | 48     | 80-911-0050-00 | 55     | 80-911-0134-00 | 42, 43     | 80-911-0230-01 | 36         |
| 80-911-0010-00 | 48     | 80-911-0051-00 | 55     | 80-911-0135-00 | 33         | 80-911-0231-00 | 36         |
| 80-911-0011-00 | 47     | 80-911-0052-00 | 55     | 80-911-0136-00 | 33         | 80-911-0231-01 | 36         |
| 80-911-0012-00 | 47     | 80-911-0053-00 | 55     | 80-911-0139-00 | 46         | 80-911-0232-00 | 36         |
| 80-911-0013-00 | 47     | 80-911-0054-00 | 55     | 80-911-0140-00 | 46         | 80-911-0233-00 | 36         |
| 80-911-0014-00 | 47     | 80-911-0057-00 | 59     | 80-911-0144-00 | 46, 57     | 80-911-0241-00 | 56         |
| 80-911-0016-00 | 55     | 80-911-0060-00 | 60     | 80-911-0145-00 | 46, 57     | 80-911-0242-00 | 56         |
| 80-911-0017-00 | 55     | 80-911-0061-00 | 60     | 80-911-0147-00 | 57         | 80-911-0243-00 | 56         |
| 80-911-0018-00 | 60     | 80-911-0062-00 | 60     | 80-911-0148-00 | 57         | 80-911-0244-00 | 56         |
| 80-911-0019-00 | 60     | 80-911-0063-00 | 60     | 80-911-0155-00 | 46         | 80-911-0245-00 | 56         |
| 80-911-0020-00 | 60     | 80-911-0066-00 | 60     | 80-911-0156-00 | 46         | 80-911-0246-00 | 56         |
| 80-911-0021-00 | 60     | 80-911-0068-00 | 51     | 80-911-0160-00 | 44         | 80-911-0247-00 | 56         |
| 80-911-0022-00 | 60     | 80-911-0069-00 | 50     | 80-911-0160-01 | 44         | AC-VSEN-4      | 61         |
| 80-911-0023-00 | 60     | 80-911-0071-00 | 60     | 80-911-0162-00 | 58         | CT-10-3        | 61         |
| 80-911-0024-00 | 54     | 80-911-0072-00 | 59     | 80-911-0163-00 | 58         | CT-HD          | 61         |
| 80-911-0025-00 | 54     | 80-911-0082-00 | 50     | 80-911-0164-00 | 58         | LB-450-50      | 61         |
| 80-911-0026-00 | 54     | 80-911-0085-01 | 60     | 80-911-0165-00 | 58         | MSC-RV-KIT     | 38         |
| 80-911-0027-00 | 54     | 80-911-0086-01 | 60     | 80-911-0171-00 | 57         | SET-KEYPAD-1   | 58         |
| 80-911-0028-00 | 54     | 80-911-0087-01 | 60     | 80-911-0172-00 | 57         | SET-KEYPAD-RV  | 58         |
| 80-911-0029-00 | 54     | 80-911-0088-01 | 60     | 80-911-0174-00 | 58         |                |            |
| 80-911-0030-00 | 54     | 80-911-0089-01 | 60     | 80-911-0175-00 | 58         |                |            |
| 80-911-0031-00 | 54     | 80-911-0090-00 | 34, 59 | 80-911-0179-00 | 44, 57     |                |            |

## Ingress Protection (IP) Ratings Guide

Example:


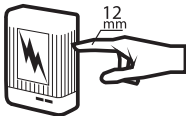
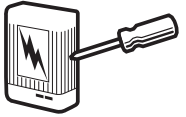



An IP65 rating can be determined using the adjacent table and example:

- The first number of the rating example, 6, in the gray column means the enclosure is dust tight
- The second number of the rating example, 5, in the blue column means the enclosure is protected against jets of water

The IP rating system was established by the International Electrotechnical Commission (IEC), an organization for international standards and conformity assessment. The IEC collaborates closely with the International Organization for Standardization (ISO). A complete description of the IP ratings and associated tests is found in IEC Publication 529. Although these ratings were initially developed as a way to classify enclosures, they now provide a convenient, practical way to compare levels of sealing. Many electrical products have an Ingress Protection (IP) rating which identifies the environmental factors needing consideration prior to the product's installation.

This is important when deciding when to mount products in a dry and clean environment versus a wet and/or dusty environment. The IP rating indicates the degree of protection provided. The numbers following IP represent levels of sealing and can range from no protection to full protection against dust and water. The table provides a description of the protection at each level.

### SOLIDS









|          |   |  |
|----------|---|--|
| <b>1</b> |    | Protected against a solid object greater than 50 mm such as a hand.  |
| <b>2</b> |    | Protected against a solid object greater than 12 mm such as a finger.  |
| <b>3</b> |    | Protected against a solid object greater than 2.5 mm such as a screwdriver.  |
| <b>4</b> |    | Protected against a solid object greater than 1 mm such as a wire.   |
| <b>5</b> |    | Dust Protected. Limited ingress of dust permitted. Will not interfere with operation of the equipment. Two to eight hours. |
| <b>6</b> |  | Dust tight. No Ingress of dust. Two to eight hours.  |

Rating Example:

**IP65**

INGRESS PROTECTION

### WATER

|          |   |  |
|----------|---|--|
| <b>1</b> |    | Protected against vertically falling drops of water. Limited ingress permitted.  |
| <b>2</b> |    | Protected against vertically falling drops of water with enclosure tilted up to 15 degrees from the vertical. Limited ingress permitted. |
| <b>3</b> |    | Protected against sprays of water up to 60 degrees from the vertical. Limited ingress permitted for three minutes.                       |
| <b>4</b> |    | Protected against water splashed from all directions. Limited ingress permitted.   |
| <b>5</b> |    | Protected against jets of water. Limited ingress permitted.  |
| <b>6</b> |  | Water from heavy seas or water projected in powerful jets shall not enter the enclosure in harmful quantities.                           |
| <b>7</b> |  | Protection against the effects of immersion in water between 15 cm and 1 m for 30 minutes.   |
| <b>8</b> |  | Protection against the effects of immersion in water under pressure for long periods.  |



**Americas**

N85 W12545 Westbrook Crossing  
Menomonee Falls, WI 53051 USA  
p 800.307.6702

**Asia Pacific**

42 Apollo Drive  
Rosedale, Auckland 0632  
New Zealand  
p +64.9.415.7261

**Europe, Middle East & Africa**

Snijdersbergweg 93  
1105 AN Amsterdam  
The Netherlands  
p +31(0)20 34 22 100

[tech.mastervolt@oneasg.com](mailto:tech.mastervolt@oneasg.com)

©2023 CZone  
All rights reserved

Unauthorized copying or  
reproduction is a violation  
of applicable laws.

CZN\_CAT\_003\_0722