

Control 1

 NMEA2000
 IPX5

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

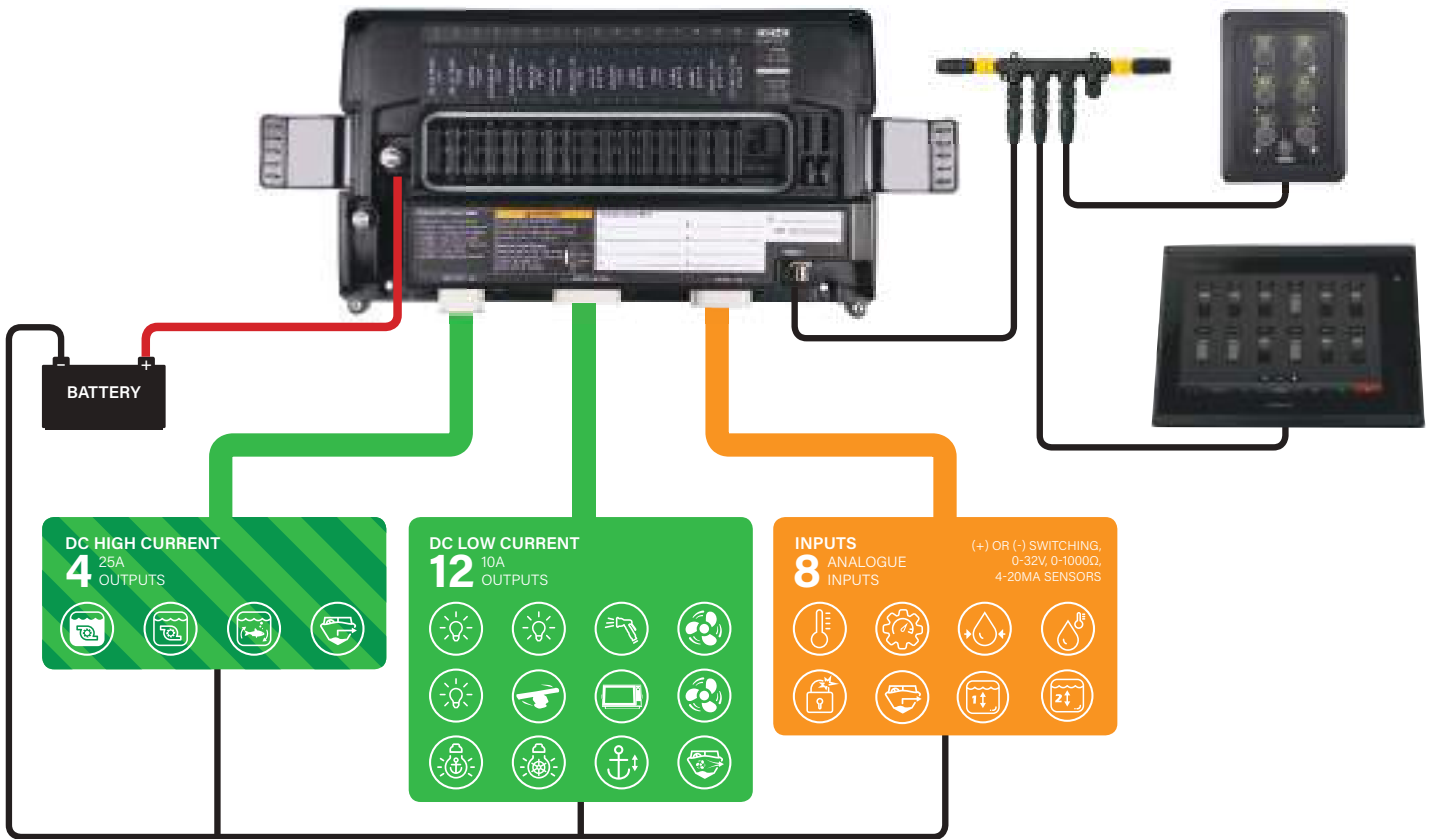


Features & Benefits

- » Complete CZone Control and Monitoring system in a single box
- » Modular design provides system options for wide range of vessels & RV's
- » Compatible with marine multi-function and black box chartplotter/ fishfinders
- » Equipped with advanced core CZone feature set
- » Competitive price point for cost sensitive applications
- » ABYC compliant ATC fusing and mechanical bypass for redundancy
- » PWM light dimming capability & smooth start
- » Monitor tank levels, battery volts, temperature and pressure using industry standard sensors
- » Bilge Pump Run Detection allows pump control and monitoring from a single wire
- » Status LED's for all outputs, DC supply & NMEA2000
- » Additional volt monitoring on main DC connection and N2K
- » In-built load shedding allows non-necessary loads to be turned off to preserve battery life
- » USB port allows full system firmware & config updates (no PC or adapters required)

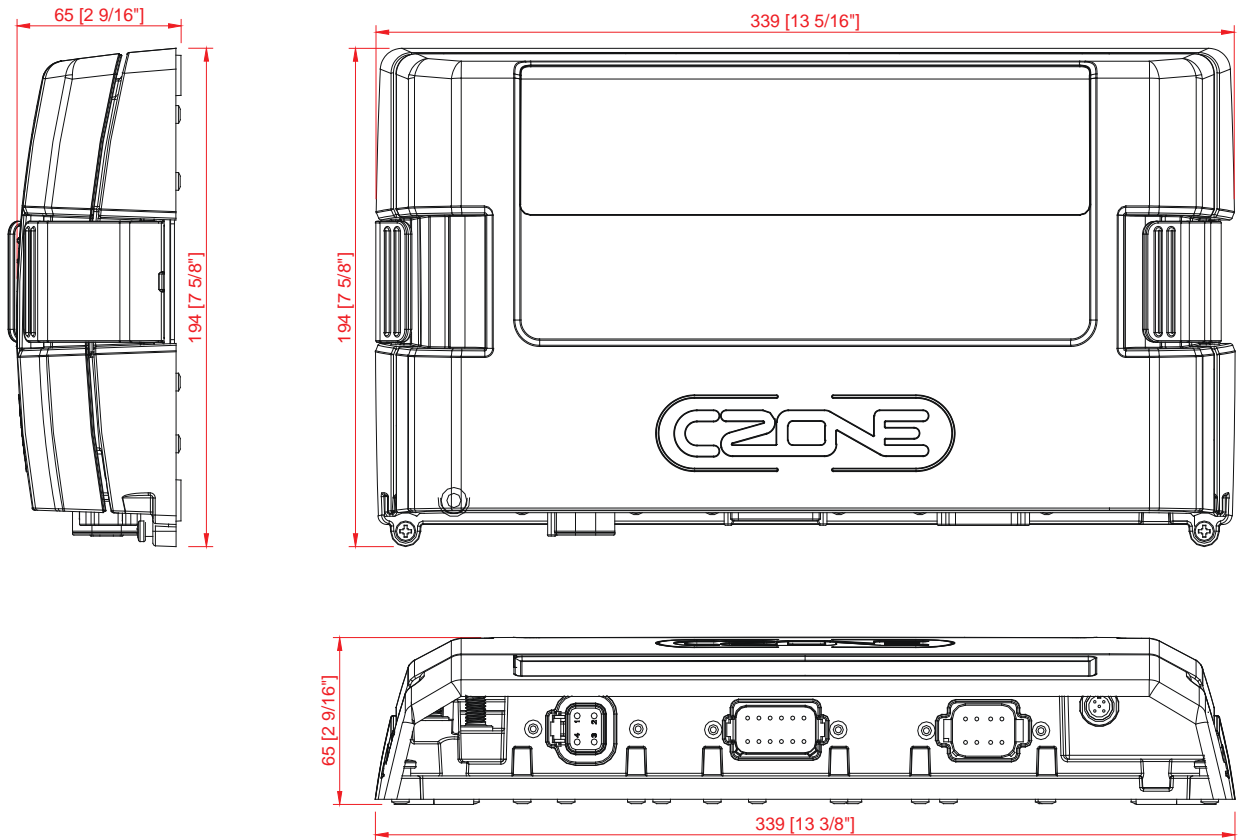
Part Number	Description
80-911-0122-00	CZone Control 1 Interface
80-911-0131-00	CZone Control 1/COI Deutsch Connector Kit
80-911-0133-00	Deutsch HDT-48-00 crimp tool

Basic System












Specifications	
Output Channels High	4 x 25A
Output Channels Low	12 x 10A Dimmable
Analogue Inputs	8 x Analogue Inputs: Positive or Negative Switching, 0-32 Volt, 0-1000 Ohm Resistance & 4-20mA Current
Additional Monitoring	1x Volt Sense on Main Positive Stud
Circuit Protection	ATC Fuse with Fuse tripped & fuse in bypass alarms
NMEA2000 PGN Output	Fluid Level, Pressure, Temperature, Battery Volts
Connectors	Deutsch DTP and DT
Maximum Continuous Current	150A @ 40°C (104°F) - derating above 40°C (104°F)
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 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
Weight	1.9KG
Certification	CE, ABYC, NMEA, ISO8846/SAEJ1171 Ignition Protected

Dimensional Drawing



80-911-0133-00	Deutsch HDT-48-00 crimp tool
For Size 12 and 16 Contacts	

80-911-0131-00		CZone Control 1/COI Deutsch Connector Kit		
Deutsch DTP 4-Way				
For OUT-H Connector on COI/Control 1	1 x DTP06-4S - Plug 1 x WP-4S - Locking Wedge 4 x 0462-203-12141 - Size 12 Contact (14-12AWG, 2.0-4mm ²). Deutsch HDT-48-00 crimp tool required 4 x 1062-12-0222 - Size 12 Contact (10AWG, 4-6mm ²). Duratool D03008 or similar uninsulated crimp tool required			
Deutsch DT 12-Way				
For OUT-L Connector on COI/Control 1	1 x DT06-12SA - Plug 1 x W12S - Locking Wedge 12 x 0462-201-16141 - Size 16 Contact (20-16AWG, 0.5-1.5mm ²). Deutsch HDT-48-00 crimp tool required 4 x 0462-209-16141 - Size 16 Contact (14AWG, 2.0-2.5mm ²). Duratool D03008 or similar uninsulated crimp tool required			
Deutsch DT 8-Way				
For IN-A Connector on COI/Control 1	1 x DT06-08SA - Plug 1 x W8S - Locking Wedge 8 x 0462-201-16141 - Size 16 Contact (20-16AWG, 0.5-1.5mm ²). Deutsch HDT-48-00 crimp tool required			

Comparison Guide: CZone Output Modules



	Contact 6 Fused	Contact 6 Non Fused	Contact 6 PLUS	Output Interface (OI)	Control 1	Combination Output Interface (COI)
Mechanical Fuse	✓ PTC (auto-rest)		✓ ATC	✓ ATC	✓ ATC	✓ ATC
Tripped Fuse Detection			✓	✓	✓	✓
Circuit Bypass	✓ Electronic	✓ Electronic	✓ Mechanical	✓ Mechanical	✓ Mechanical	✓ Mechanical
Current Sensing				✓		✓
Software Fusing				✓		✓
Dimming (PWM)			✓ All Channels	✓ All Channels	✓ Low Current Outputs	✓ Low Current Outputs
Low Current Outputs	6 x 7.5A	6x 9A			12 x 10A	12 x 10A
High Current Outputs			6 x 15A	6 x 20A	4 x 25A With Bilge Pump Running Detection	4 x 25A With Bilge Pump Running Detection
Negative Output Switching	✓ Per Circuit	✓ Per Circuit				
Reverse Motor Control	✓					
Analogue/Digital Inputs					8 0-1000, 0-32V. 4-20mA, Pos & Neg Switch	8 0-1000, 0-32V. 4-20mA, Pos & Neg Switch
Backlit Digital Switch Inputs						6 Requires DSB Module
Output Voltage	12V	12/24V	12/24V	12/24V	12/24V	12/24V