# 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 19), 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" 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 (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 |