

CIRCUIT CONTROL YDCC-04

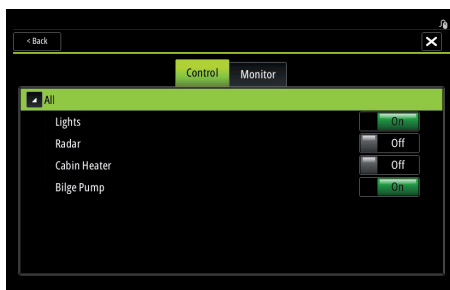
The Circuit Control contains four latching (bi-stable) relays, which can be managed from connected control buttons with LED indicators or over NMEA 2000 with standard messages.

The Circuit Control is the core component of our digital switching system. In addition to connected buttons, loads can be managed with "virtual buttons" on the Web Gauges of our NMEA 2000 Wi-Fi Gateway, or automatically from our sensors. To set up additional control posts with duplicate physical buttons and indication, use Switch Control YDSC-04.

Loads can also be managed from all chart plotters with **CZone** support: all modern models of **Garmin**, **B&G**, **Lowrance**, **Simrad**, **Furuno** and recent models from **Raymarine** (Axiom, eS, gS).

Electrical characteristics of Circuit Control:

- four channels: two with normally open contacts (ON-OFF) and two with switching contacts;
- latching (bi-stable) relays consume electricity only during the process of switching and stay in their last state after the device is powered off;
- maximum constant load current per channel is 10A, peak is 20A (4 seconds, duty cycle 10%);
- capable of switching the direct current (DC) and alternating current (AC) loads up to 400 V;
- high voltage isolation with a load, 5000 VRMS;
- average device consumption is only 30 mA.

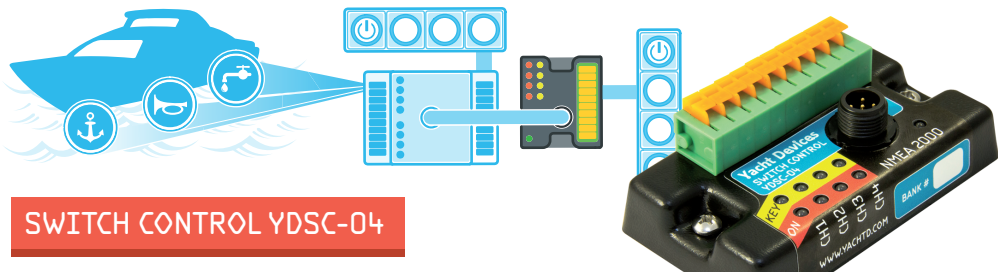


B&G Vulcan with YDCC-04 loads



Web Gauges of Wi-Fi Gateway YDWG-02

The Circuit Control and Switch Control are designed to be compatible with Oceanic Systems, Offshore Systems, Chetco Digital, Maretron and Carling Tech displays and relay modules, and with other NMEA 2000 digital switching devices managed with standard NMEA 2000 PGN 127501 "Binary Status Report" and PGN 127502 "Binary Switch Control".



SWITCH CONTROL YDSC-04

The Switch Control allows viewing of the state and the management of four channels of an NMEA 2000 switch bank from the connected buttons with LED indicators.

It is designed to work in tandem with Circuit Control YDCC-04 (contains four latching relays) and is compatible with other NMEA 2000 digital switching devices managed by standard NMEA 2000 PGNs 127501 and 127502.

The Device has terminals for connection of four momentary push buttons with an LED indicator. External buttons are not supplied with this device; you can choose any to match your boat's interior.

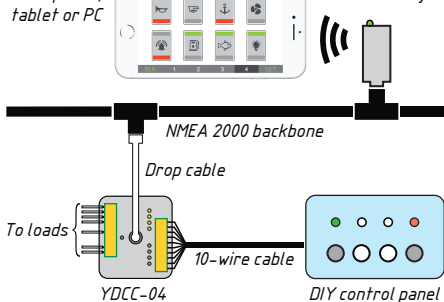
Benefits of Circuit Control and Switch Control:

- ▶ no special requirements for buttons, you can choose any momentary push buttons to match your boat's interior;
- ▶ no special knowledge, software or hardware is required for installation;
- ▶ price and size are suitable for small vessels;
- ▶ pure NMEA 2000 product, compliant to the Standard and certified by NMEA;
- ▶ support firmware updates, free software for PC is available (Wi-Fi or USB Gateway is required).

Smartphone,
tablet or PC



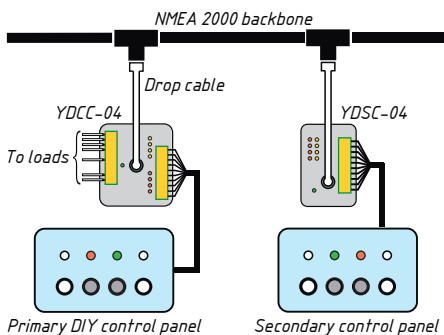
Wi-Fi Gateway



Basic system, with single Circuit Control unit

The Circuit Control unit can work in parallel with other units and can be managed from multiple Switch Control units with a matched bank number (252 unique bank numbers are allowed in NMEA 2000). Multiple independent digital switching systems (with different bank numbers) can co-exist in a single NMEA 2000 network.

If you have external access to your boat's Wi-Fi network, the NMEA 2000 Wi-Fi Gateway with built-in Web Gauges will allow you to manage loads from everywhere using a web browser on any device (smartphone, PC, tablet, etc.).



Typical system with multiple control panels



Certified by the National Marine Electronics Association
Operating voltage (from an NMEA 2000 network): 7..16 V
NMEA 2000 consumption current (max): 30 mA
Dimensions with connector (LxWxH): 85x45x28 mm

USD \$ 149

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