

NMEA2000® RELAY OUTPUT MODULE 8 WAY

FEATURES

- ◆ 8 fully isolated SPCO relays
- ◆ 8 Amp @ 35 Volts DC or
16 Amp @ 250 Volt AC contacts
- ◆ Indicator LED for each relay
- ◆ Switch settable device instance
- ◆ Boat builder preferred WAGO cage
clamp terminal connections
- ◆ Receives standard NMEA2000® switch
bank / relay commands
- ◆ Transmits standard NMEA2000® switch
bank / relay status every 2 seconds
- ◆ NMEA2000® network standard



The Oceanic Systems' 3478 Relay Output Module - 8 Way allows messages over the NMEA2000® network to directly control 8 power relays using standard NMEA2000® PGN messages.

Each of these relays are each totally isolated and can be connected to any mix of DC or AC control circuits each controlling up to 8 Amps at 35 Volts DC or 250 Volts AC resistive load.

Normal applications for these relays would be providing remote alarm inputs, pump management, power switching contactors, light control and many other applications where power needs to be controlled over the network.

Each 3478 has a switch settable switch bank instance to allow multiple relay output modules on a single network.

The connections to the relays are made via boat builder preferred WAGO cage clamp terminal blocks which allow either solid or multistranded wires from 0.08 to 2.5mm² to be connected quickly and securely. Each relay output also has a tell tale green LED to indicate when each relay is operated.

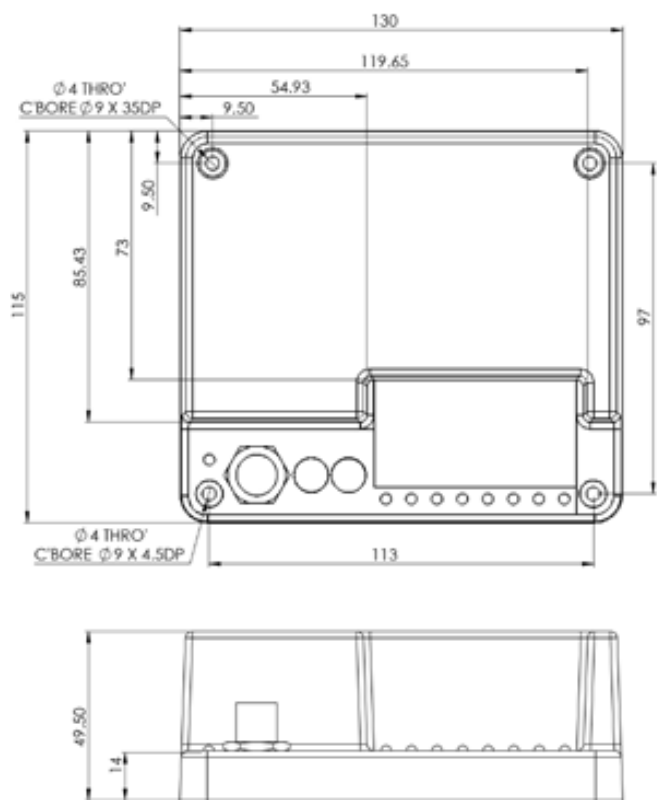
The 3478 is operated from the standard NMEA2000® switch bank control PGN 127502 from any NMEA2000® controller. The unit also transmits the standard NMEA2000® switch bank status PGN127501 every 2 seconds to keep the network updated.

The unit comes with a detailed user manual and is manufactured to the NMEA2000® network standard.

NMEA2000® RELAY OUTPUT MODULE 8 WAY

Part Number: 3478

Dimensions



Design Standard

NMEA2000	Level B
Maritime Nav and RadioComm Equipment	IEC60945
CE and FCC	Electromagnetic Compatibility

NMEA2000 Parameter Group Numbers (PGNs)

Type	PGN No.	PGN Name
Command	PGN127502	Switch Bank Control
Monitor	PGN127501	Switch Bank Status
Protocol	PGN126464	Tx/Rx PGN List
	PGN126996	Product Information
	PGN059392	ISO Acknowledge
	PGN059904	ISO Request
	PGN060928	ISO Address Claim
	PGN126208	Command/Request Group

Electrical and Mechanical

Parameter	Value
Operating Voltage	9 to 28 VDC
Power Consumption	30-340mA
Load Equivalence Number	7
Reverse Battery Protection	Indefinitely
Load Dump Protection	Yes to SAEJ1113
Size	143mm x 113mm x 53mm
Weight	

Environmental

Parameter	Value
IEC 60954 Classification	Protected
Degree of Protection	IP40
Operating Temperature	-25°C to 50°C
Storage Temperature	-40°C to 70°C
Relative Humidity	93%RH @40°C per IEC60945-8.2
Electromagnetic Emission	Conducted and Radiated Emission per IEC60945-9
Electromagnetic Immunity	Conducted, Radiated, Supply, and ESD per IEC60945-10

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