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ZNC-580
8ch NMEA Combiner (Multiplexer)

◼ Introduction

ZNC-580 8ch NMEA Combiner (Multiplexer) combines eight NMEA 0183 input data and outputs them through two NMEA 0183 output ports and 1 RS232 Tx output port.

This is very useful for equipment such ECDIS which is required to receive various NMEA 0183 data from many types of equipment such GPS, Gyrocompass, AIS, ARPA and Speed Log.

ZNC-580 has filtering function of NMEA data. The function is available to receive the specific NMEA data came from specific port, and output these data via specific port. Also it can filter out the unwanted NMEA data and reduce the traffic of combined NMEA data.

◼ Features

1. All input and output ports have their own "Filter table" and "Filter table" determines to pass NMEA data or not. Also "Filter table" can filter out unwanted NMEA data and reduce the traffic of NMEA output data.
2. If error of each input data exceeds pre-defined error rate, visible alarm is on and off with a sound at 0.5 sec. It means that the equipment needs preventive maintenance, and user can prevent before problem occurred.
3. One RS-232 serial port is available to connect with a personal computer or other RS232 devices.
4. User can inquire "Filter table" and can set configuration easily through a RS232 port with using standard program such Hyper-terminal and PC.
5. All input ports are opto-isolated in accordance with NMEA 0183 standard, and it's protected from over voltage.

◼ Specifications

NMEA Inputs

Number of Port	- 8 NMEA 0183 Input Ports (RS422, RS232, Current loop, 5V TTL Signal)
Protection	- A Protection against Over Voltage (up to 50V)
Baud Rate	- 4,800bps (Port 7 and 8 can be changed to 9,600/19,200/38,400)

NMEA Outputs

Number of Port	- 2 NMEA 0183 (IEC61162-1, RS422) Output Ports
Baud Rate	- 4,800/9600/19,200/38,400 bps (Output 1/2 and Input 7/8 are changed together)

RS-232 Tx/Rx	
Configuration	- Configuration data is down/up loaded from/to PC and Hyper-Terminal program
NMEA Data	- Tx/Rx ports are normally used for NMEA Data Input and Output
Baud Rate	- 4,800/9,600/19,200/38,400bps
Indicator	
Input Power	- Red LED
Input NMEA Data	- 8 Green LEDs for 8 NMEA Input Signals - If any input error rate is more than pre-defined threshold level, it blinks by 0.5sec period. It means that check and maintenance may be required.
Output NMEA Data	- 2 Red LEDs for 2 NMEA Output Signal
RS232 Tx/Rx	- One Green and one Red LED for each Input and Output Signal (Each LED blinks if there are any NMEA data on each input and output ports)
Alarm and Dimmer	
Alarm	- When any input error is more than predefined error rate, the audible alarm is on
Dimmer	- The brightness of all LEDs is adjusted by eight steps by push button
Filtering NMEA Data	
Passing/Filtering	- All input and output ports have their own filter table to identify either passing or filtering NMEA sentences - If no data on filter table, the port passes all NMEA data without any filtering
Number of List	- Maximum 16 NMEA Sentences can be defined for each input and output ports
Power	
Input Voltage	- DC 24V (18~32V), Approximately 200mA - Electric Fuse, No Replacement Required
Physical Specifications	
Dimension/Weight	- 180 x 48 x 115 mm / 1.0 kg (7.0 x 1.9 x 4.5 in / 2.2 lb)
Terminal	- Removable Screw Terminal Blocks
Option	- Input power DC12V (9~16V) is available, please contact us.

▣ **Remark**

1) If you need any other specifications, please contact us.

2) This specification may be changed without notification.