

# ZNC-580

## Intelligent NMEA Combiner

### Introduction

The **ZNC-580 NMEA Combiner** combines up to 8 NMEA-0183 input data and let out it through 2 NMEA-0183 output ports and 1 RS-232 Tx port. This is very useful for any equipment such ECDIS required receiving various NMEA-0183 data from many equipment such GPS, Gyrocompass, AIS, ARPA and Speedlog,.



This ZNC-580 NMEA Combiner has the function of NMEA data filtering. This allows to filter out unwanted NMEA data and reduce the traffic combined NMEA data output.

### Features

- ✧ Combine enough 8 NMEA input data and output it through 3 independent output ports.
- ✧ All input and output ports have its own "Filter table" for either passing or filtering NMEA data. This allows to filter out unwanted NMEA data and reduce the combined NMEA data output.
- ✧ If error rate of each input data exceeds pre-defined error rate, audible and visible alarm is on. This alerts to do preventive maintenance, and the system reliability can be upgraded.
- ✧ One RS-232 serial port is available for connection to a personal computer or other RS-232 device.
- ✧ Easy configuration through RS-232 port with using PC and standard program such Hyper-terminal.
- ✧ All NMEA input ports are opto-isolated for fully compliant with NMEA-0183 standard, and protected from over voltage.

### Specifications

#### NMEA Inputs :

Number of port	8 NMEA-0183 input ports (RS-422, RS-232, Current loop, 5V TTL signal)
Protection	Over voltage protection (up to 50V)
Baudrate	4,800bps (Port 7/8 can be changed to 9600, 19200, 38400. See Output ports)

#### NMEA Outputs :

Number of port	2 NMEA-0183 (IEC-61162-1, RS-422) output ports
Baudrate	4800, 9600, 19200, 38400 bps (Output 1/2 and Input 7/8 is 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.

Baudrate 4800, 9600, 19200, 38400 bps.

**Indicator :**

Input power Red LED.  
 Input NMEA data 8 green LEDs for 8 NMEA input signals  
 If any input error rate is more than predefined threshold level, it blinks by 0.5sec period. This means that check and maintenance may be required.  
 Output NMEA data 2 red LEDs for 2 NMEA output signals  
 RS-232 Tx/Rx 1 green and 1 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 rate is more than predefined error rate, the audible alarm is on.  
 Dimmer The brightness of all LEDs is adjusted by 8 level by push button switch.

**Filtering NMEA data :**

Passing/Filtering All input & output port have its own filter table to identify either passing or filtering NMEA sentences.  
 If no data on filter table, that port passes all NMEA data without any filtering.  
 Number of list Max 16 NMEA sentences can be defined for each input and output ports.

**Power :**

Input Voltage DC 24V (18~32V), Appr. 200 mA.  
 Fuse Electronic fuse, no replace required.

**Physical specifications :**

Size 180 x 48 x 115 mm.  
 Weight Appr. 0.7kg.  
 Terminal Screw and removable terminal blocks

**Option :**

Input power DC12V (9~16V)

\* These specifications may be changed without any notification.

