

(Edition 4.1b)

This NMEA buffer provides full DC isolation between input signal, output signal and input power supply.

- NMEA-0183, ISO/IEC61162-1, ITU-X.27/V.11 standards compliance.
- Protect all input and output ports from careless wiring, over voltage, transient voltage, surge noise and output short.
- Provide RS-232 signal (up to 2 Ports)
- Even if one input signal doesn't come, another input is automatically (or manually) selected and output continuously.
- Use electronic fuse and no change required.

From left, input power, data inputs (A, B), data outputs (1~8), and the details are as followings.

POWER			IN1	IN2		OUT 1	OUT 2	OUT 3	OUT 4	OUT 5	OUT 6	OUT 7	OUT 8							
+24V-	FG		A-B	A-B		A-B	A-B	A-B	A-B	A-B	A-B	Tx-G	G	Tx-C	C					

- POWER : DC24V(18~32V) Input
- IN 1 ~ IN 2 : NMEA data input ports. RS-422, RS-232 and 5V TTL signals can be used.
- OUT1 ~ OUT8 : NMEA data output ports.
- \* OUT 7 ~ OUT 8 : Support both NMEA(RS-422) and RS-232 signals, and selected by SW7, SW8.  
(Refer to "3")

- example 1 : DIP SW1-Man(down), SW2-A(up).

Auto ☐ B(IN2) -Off  
Man ☐ A(IN1) -On

1 2

Always, "IN1" is out (never changed to "IN2" even no data on "IN1")  
- example 2 : SW1-Man(on), SW2-IN2(off)

Auto ☐ ☒ B(IN2) -Off  
Man ☒ ☐ A(IN1) -On

1 2

Always, "IN2" is out (never changed to "IN1" even no input on "IN2")

– example 3 : SW1–Auto(off), SW2–IN1(on)

Auto ☐ B(IN2) –Off Data "IN1" is out as prior to "IN2". When no input on "IN1", "IN2" is  
Man ☐ A(IN1) –On selected automatically.  
1 2

– example 4 : SW1–Auto(off), SW2–IN2(off)

Auto ☐ B(IN2) –Off "IN2" is out as prior to "IN1". When no input on "IN2", "IN1" is  
Man ☐ A(IN1) –On selected automatically.  
1 2

### 3) RS-422/232 Selection (SW7, SW8)

These are used for specifying output signal type such RS-422 and RS-232. SW7 and SW8 (on most front/rear side of PCB) are used for each OUT7 and OUT8 port.

If each SW is left position, then it become RS-422, and right position, then it become RS-232.

– Example

☐ SW7 OUT7: RS-422  
☐ SW8 OUT8: RS-232.

### 3. Specifications

#### 1) Data Input

- 2 NMEA ports (Auto/manual selectable)
- Signal type : RS-422, RS-232, 5V TTL signal
- Up to 115,200 bps support
- Over voltage protection : up to 50V (1 minute)

#### 2) Data Output

- 8 NMEA (RS-422) ports
- 2 ports support for both RS-422 and RS-232 signals.
- Short protection and transient voltage suppression

#### 3) Display (Left panel)

- Power On: Red LED
- Input A/B : Green LED

#### 3) Input power

- Used electronic fuse (0.3A), No replacing required
- DC 24V (18V~32V), Max 5W
- Reverse voltage protection

#### 4) Weight : Appr. 1kg

#### 5) Dimension :

- 193 x 138.5  
x 46.5mm

