

NBC-22 NMEA BAUDRATE CONVERTER



Manual

OVERVIEW

NMEA baudrate converter is used to send and receive NMEA data with different baud rates. Input and output speed can be adjusted according to the DIP switches. The embedded software can be updated according to the specially specified baud rate (Special speeds must be notified to us in advance).

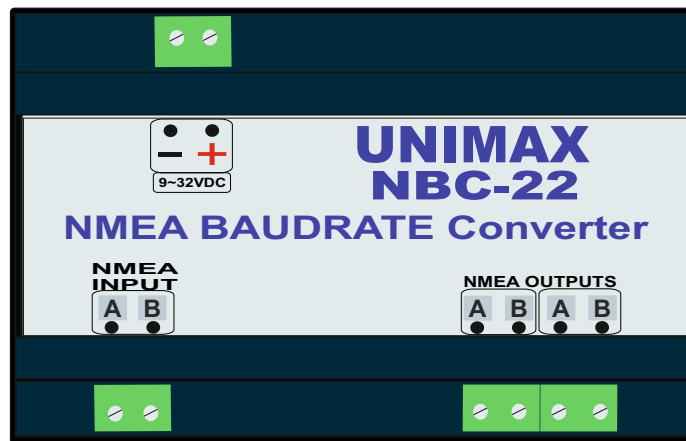
In order for the DIP Switch settings to be effective, the device must be disconnected from the power and given again. Data loss may occur when converting from a higher value of baud rate to a lower due to the bottleneck effect.

NMEA sentences whose baud rate will be converted must end with <CR><LF>.

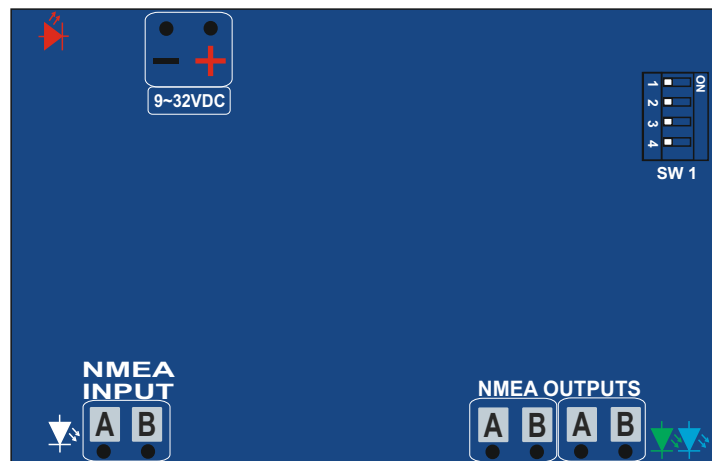
The NBC-22 can be powered within the range of 9~32 VDC. The nominal voltage of 12~24 VDC is advised for powering the device in normal operation. Power input port has a protection for incorrect polarity connection of the supplying voltage.

Features:

- ☐ 9-32VDC Power supply
- ☐ Reversed polarity protection
- ☐ Internal resetable fuse
- ☐ NMEA0183, IEC61162 Protocol
- ☐ 1 X Galvanic isolated Input
- ☐ 1 X RS422 Output (2 output optionally)
- ☐ 2400, 4800, 9600, 38400 Input baudrates
- ☐ 2400, 4800, 9600, 38400, 115200 Output baudrates
- ☐ Power, Input Data, Output Data, System LEDs
- ☐ Case - Dimensions ABS DIN Rail Mount Box 105 x 86 x 58



On Board DIP Switches and LEDs Location:



NMEA BAUDRATE CONVERTER DIP SW 1 Switch Settings:

SW1 4321 ON = 1 OFF = 0	NMEA DATA INPUT BAUDRATE	NMEA DATA OUTPUTS BAUDRATE	MOD
0000	2400	4800	1
0001	2400	9600	2
0010	2400	38400	3
0011	2400	115200	4
0100	4800	2400	5
0101	4800	9600	6
0110	4800	38400	7
0111	4800	115200	8
1000	9600	2400	9
1001	9600	4800	10
1010	9600	38400	11
1011	9600	115200	12
1100	38400	2400	13
1101	38400	4800	14
1110	38400	9600	15
1111	38400	115200	16

In order for the DIP settings to be effective, the device must be disconnected from the power and given again!

LED's mean:

- The red LED lights when the board is energized.
- The white LED indicates that data is coming from the NMEA input.
- The blue LED indicates that the board software is working properly.
When the board is first energized, it flashes 5 times quickly, then flashes at 1 second intervals.
- The green LED indicates that the speed-adjusted data is received from the NMEA input and transferred to the output.

Outline Drawing:

