Overview

NDCU - Navigation Data Computing Unit is a universal device to receive and transmit RS422 signals such as NMEA 0183, Course Bus or other similar serial protocols with baud rate up to 115200 bps. The device is equipped with four independent serial inputs and four independent serial outputs, USB port which can be used not only for configuring the device but also for listening of the signals, and a fully configurable relay.
Depending on the software uploaded by the user it allows to simple manipulate, filter, combine NMEA strings, making calculations and changing NMEA talkers or even protocols!

Features

- Multipurpose, flexible device
- Simple and compact design
- Easy installation on the DIN rail
- Each NMEA input is separated from other connected NMEA devices
- Four inputs with separately configurable baud rate
- Four outputs with two channel buffers – so two receivers can be safely connected to each output
- Standard USB port for programming the device or listening signals
- Fully configurable relay (alarm, BNWAS reset or any other purpose)
- Software upload by USB port and standard PC computer

Available software

- True Wind Calculator
- Heading Converter (Course Bus to NMEA Superfast)
- GPS Speed Converter

  For current list of available software please refer to our website or contact us if you have a further requirements.
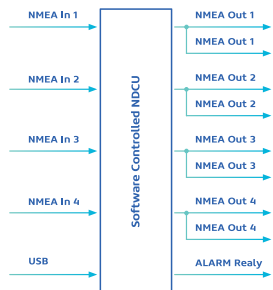
Technical data

- Power Supply: 24VDC (9 to 36VDC)
- Power consumption: maximum 7,5 W at 24VDC
- Number of inputs: 4, baud rate configured separately
- Number of outputs: 4 the same baud rate as a relevant input
- Input/output signal baud rate: 2400 – 115200 bps (230400 bps as output only) compatible with IEC 61162-1, IEC 61162-2
- Connection: cables diameter up to 1,5mm2
- Dimensions: L 92,0 mm x W 86,4 mm x H 72,0 mm
- Mounting: DIN Rail.
- Data retention: 20 years at 85 °C / 100 years at 25 °C
- Galvanic isolation: Power supply 1,5kVDC, signal input/output up to 5kVRMS

NMEA In 1 → Software Controlled NDCU → NMEA Out 1
NMEA Out 1
NMEA In 2 → NMEA Out 2
NMEA Out 2
NMEA In 3 → NMEA Out 3
NMEA Out 3
NMEA In 4 → NMEA Out 4
NMEA Out 4
USB → ALARM Realy

72 mm

86,4 mm

92 mm