

ONWA®

Marine Electronics

Model: **KC-2W**

N2K and NMEA0183 Bidirectional Converter



- Converts NMEA 0183 sentences to N2K PGNs
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- Take power from the N2K network, no external power supply is needed
- Configurable NMEA0183 baudrate
- Opto-isolated on N2K CAN bus
- Opto-isolated on NMEA0183 input
- Auto detect NMEA0183 baudrate and supported sentences
- Support fuel flow sensor
- Firmware upgrade and NMEA0183 output baudrate configuration by supplied PC software
- Plug and play installation

SPECIFICATIONS

1. Power supply (N2K Port)

- 1.1 Electrical: 5 ~ 30VDC
- 1.2 Current drain : 50ma at 12VDC
- 1.3 Protection: overvoltage, power transient and accidental reverse polarity protection

2. N2K Port (IEC61162-3)

- 2.1 Support PGNs
126992 , 127237, 127245, 127250 , 127251 , 127258 , 128259 , 128267 , 128275 , 129025 , 129026 , 129029 , 129033 , 129044 , 129283 , 129284 , 129291 , 129539 , 129540 , 130306 , 130310 , 130311 , 130312 , 129038 , 129039 , 129040 , 129793 , 129794 , 129798 , 129809 , 129810
- 2.2 Electrical : Opto-isolated on N2K Can bus
- 2.3 Speed/baudrate :
- 2.4 Connector : M12 male
- 2.5 Cable length : 1.2 meter

3. NMEA0183 Port(IEC61162-1)

- 3.1 Support sentences :
AAM, APB, BOD, BWC, DBT, DPT, GGA, GLL, GSA, GSV, HDG, HDM, HDT, HSC, MDA, MTW, MWD, MWV, RMB, RMC, ROT, RPM, RSA, VBW, VDR, VHW, VLW, VTG, VWR, VWT, VPW, WPL, XDR, XTE, ZDA, ZDL, VDM, VDO

3.2 Electrical :

- 3.2.1 Output : RS232
- 3.2.2 Input : RS232/RS422/RS485 opto-isolated
- 3.3 Baudrate :
 - 3.3.1 Input : Auto detect (up to 38400)
 - 3.3.2 Output : Configurable (factory default 4800)

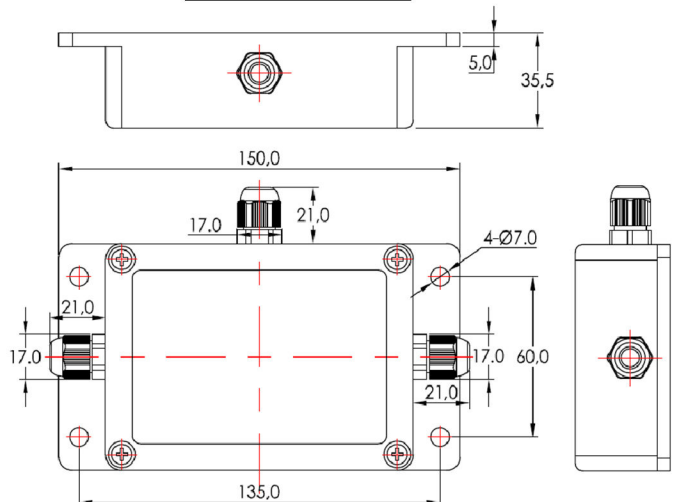
4. Fuel Flow Port

- 4.1 Input signal : TTL
- 4.2 Output :
 - 4.2.1 N2K PGN : 127489
 - 4.2.2. NMEA0183 sentence : XDR

5. Environmental conditions

- 5.1 Working temperature : -20°C to +55°C
- 5.2 Humidity : 93% ±3% on 40°C
- 5.3 Waterproofing : IPX67

Dimensions (mm)



Interconnections

