

NMEA Connect PLUS



Overview

Features

Technical Specification (1)

Scheme

The NMEA CONNECT PLUS is/will be the way to export data into many different outputs, as well as being the perfect mesh for reaching wider extensions.

When using an Ultrasonic Portable the new NMEA CONNECT PLUS will receive the information via Bluetooth. That information will be processed within the box and it will export it via: NMEA0183, Bluetooth, WIFI, or NMEA 2000. Not only the Ultrasonic Portable is compatible with NMEA CONNECT PLUS, but also the wired versions. Via NMEA 0183, information will arrive into the box and it will export data in the four different ways mentioned above.

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Supply

- 9-24V
- Can be powered from USB, CAN-bus or 9-24V. Reverse polarity protection.
- Power consumption about 200mA with Wifi ON. 80-100mA without WIFI.

Connections

- CAN-BUS port (isolated). Phoenix contact pitch 3.5mm, 1.5mm² max, push-in 45°
- 2x RS-485 port (isolated). Phoenix contact pitch 3.5mm, 1.5mm² max, push-in 45°. Termination resistor configurable.
- USB port. Phoenix contact pitch 3.5mm, 1.5mm² max, push-in 45°. Firmware upgrade
- 2C (pins) port
- SPI (pins) port

Wireless connections

- Bluetooth low energy. Range 30m open space.
- Wifi, access point and station. Can do meshing (repeater) with zero config. 802.11 b/g/h max 20dBm. Range 50m open space. Security WPA/WPA2/WEP

4Mbytes of flash for datalogging (easy improvement to 16Mbytes with same footprint changing module with small increment in cost).

Modifications possible:

Avoid isolation for reducing BOM&cost.

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Technical Specification (2)

Scheme

Protocols

Nmea0183 (RS-485)
Nmea2000 (CAN-BUS)
Modbus serial&tcp/ip

Mechanical

Dimensions : 93.3mm x 112.54mm x 35.30mm (LxWxH)
Weight : 100gr.
Housing Material : Polycarbonate 94V-2
Cable diameter: 4 holders (4-8mm & 8-12mm & 10-14mm)
Housing Cert: TUV ,CE,ROHS

Environmental

IP rating : IP68 , outdoors&underwater
Operating temperature : -40°C - 80°C
Electrical rating enclosure: 450V

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