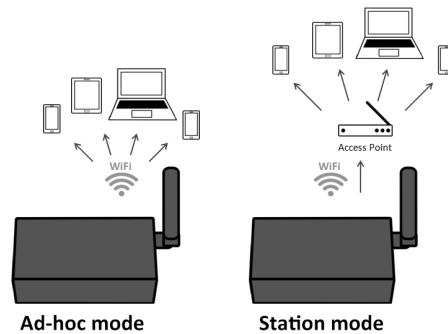


6. Connect via WiFi if desired

Ad-hoc mode WiFi (direct A032 to phone/tablet/PC) is the default setting, this requires no Windows configuration.

- **On your device (phone/tablet/PC):** 15 seconds after the A032 has powered up, you can scan for a WiFi network with an SSID similar to 'QK-A032xxxx'. Connect the device to 'QK-A032xxxx' with the default password: '88888888'.
- **In your chart software:** set the protocol as 'TCP', IP address as '192.168.1.100' and the port number as '2000' in the chart software.

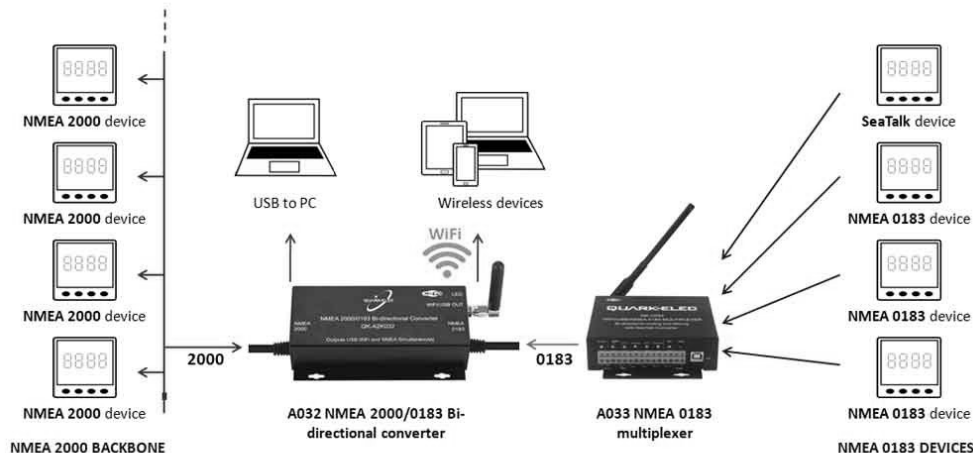


Station mode WiFi (A032 through a router/access point - to phone/tablet/PC) allows you to access your data at the same time as your other WiFi network data. This option requires configuration to set up the connection between the A032 and your router. See the 'Configuration' section of the manual and configuration instructions on the CD provided.

7. Need to Configure baud rates, USB or WiFi settings?

The device is set to connect wirelessly in Ad-hoc mode (with no need for a router or access point) If you want to change to Station mode (connecting through a router) or adjust other setting, see the configuration section of the manual and the configuration instructions on the CD provided.

- The NMEA 0183 side can be connected to a multiplexer if connecting more than one NMEA 0183 device to your N2K network.



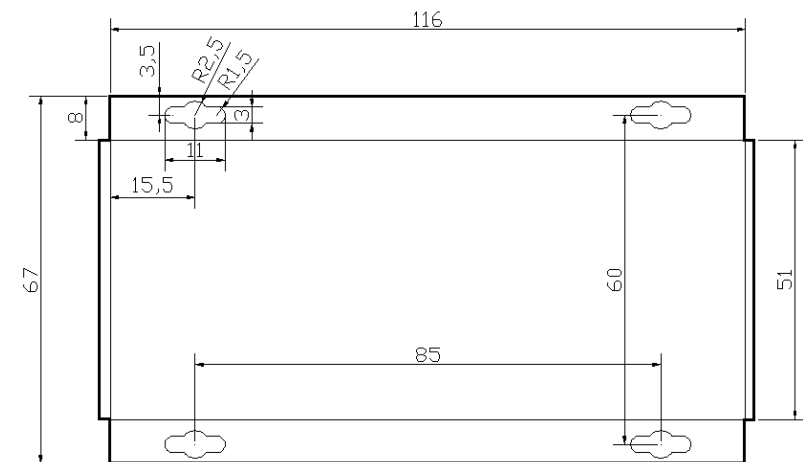
Disclaimer: This product is designed to aid navigation and should be used to augment normal navigational procedures and practices. It is the user's responsibility to use this product prudently. Neither Quark-elec, nor their distributors or dealers accept responsibility or liability either to the product user or their estate for any accident, loss, injury or damage whatsoever arising out of the use or of liability to use this product.

Email: info@quark-elec.com

QK-A032

NMEA 2000/0183

BI-DIRECTIONAL GATEWAY



- What You Need
- Installation Overview
- Notes

All products are CE, RoHS certified
www.quark-elec.com

Please recycle your packaging





This is an overview only. Familiarize yourself with the manual and the manuals of any connecting devices before installation. Designed to be connected by an experienced installer.

BEFORE LEAVING HOME:

12.0V power from N2K bus required

We recommend pre-installing the Configuration software and drivers if needed, as you might not have a CD reader/internet access on site.

Driver and Configuration software are optional and only needed for specific features.

If you will access data on a Mac/Linux/Windows PC:

- Driver required for Windows. If using Windows 10, the driver should install automatically, if not, it is included on the Free CD and at Quark-elec.com. Driver not required for Mac or Linux

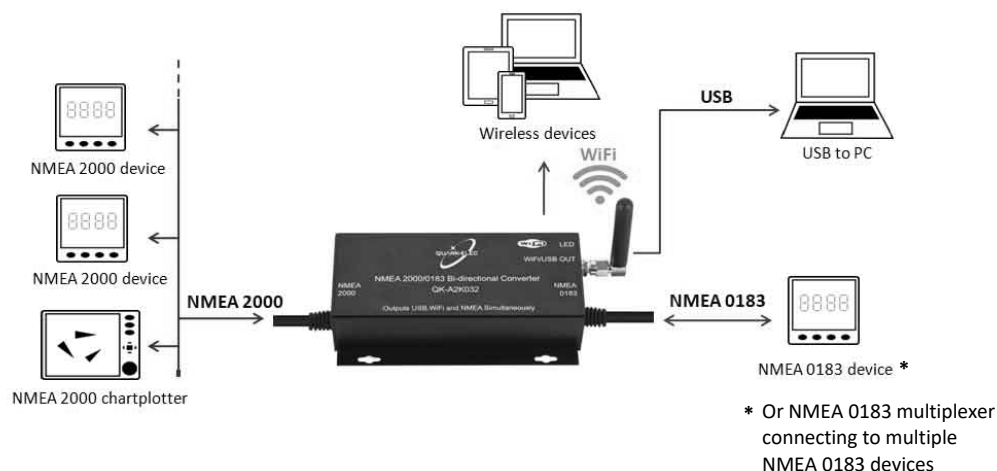
If you will connect to the A032 through Station mode WiFi: (e.g. through a router, see page 4)

- Configuration software (Windows) required, Driver may be required as above

If you will adjust NMEA 0183 baud rates: The NMEA 0183 baud rates are set to different settings depending on the A032 version (A032-S: 4800bps/A032-AIS: 38400bps). These are simply the default settings, users can adjust the baud rates using the Configuration software.

- Configuration software (Windows) required. Driver may be required as above

Configuration Software and specific instructions are on the FREE CD and at www.quark-elec.com.



INSTALLATION

1. Mounting: Consider your locations

- Dry, sturdy location 0.5m from other WiFi equipment.
- Ensure you have the correct length of wires needed. If drilling holes for your cabling, seal around any holes to prevent damage to your vessel or equipment.

2. Disconnect all power sources before connecting your equipment!

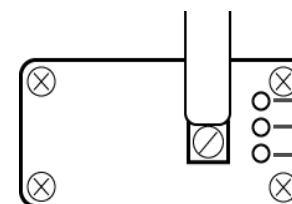
3. Connect to your NMEA 2000 backbone (12.0V power)

The QK-A032 draws 12.0V power from your NMEA 2000 backbone. You will need a backbone and 2 termination resistors (1 on each end), such as NMEA 2000 Starter Kit (www.quark-elec.com/product/nmea-2000-n2k-starter-kit/).

4. Connect your NMEA 0183 device following the colour code below

Wire Colour	Wire Name (Function)
Blue	NMEA out-
White	NMEA out+
Black	NMEA in-
Grey	NMEA in+
Brown	GND

5. Check LED feedback



Power: Top LED (red) flashes at 3 second intervals.

NMEA 2000 input: Middle LED flashes for each valid message received.

NMEA 0183 input: Bottom LED flashes for each valid message received.

Please note: the two LEDs can only show when their respective data is received not sent.

Version	Converts	Default Baud rate
A032-S	Most common NMEA 0183 sentences and NMEA 2000 PNGs. See manual for complete Conversions List.	4800bps
A032-AIS	All messages and PNGs as above plus AIS messages.	38400bps