



### NMEA0183 Hitta gemensamma meningar och hastigheter mellan instrumenten

#### **NMEA 0183 information EchoMap Plus 40**

##### **Sända**

GPAPB APB: Kurs eller spårstyrning (autopilot), mening "B"  
GPBOD BOD: Riktning (ursprung till destination)  
GPBWC BWC: Riktning och avstånd till waypoint  
GPGGA GGA: GPS-fixdata  
GPGLL GLL: Geografisk position (latitud och longitud)  
GPGSA GSA: GNSS, DOP och aktiva satelliter  
GPGSV GSV: GNSS-satelliter i sikte  
GPRMB **RMB**: Rekommenderad minimiinformation för navigering  
GPRMC **RMC**: Rekommenderat minimum för specifika GNSS-data  
GPRTE RTE: Rutter  
GPVTG VTG: Kurs över grund och fart över grund  
GPWPL WPL: Waypoint-plats  
GPXTE XTE: Avvikelse från utlagd kurs  
PGRME E: Beräknat fel  
PGRMM M: Kartreferens  
PGRMZ Z: Höjd  
SDDBT **DBT**: Djup under givare  
SDDPT **DPT**: Djup  
SDMTW MTW: Vattentemperatur  
SDVHW **VHW**: Fart genom vattnet och kurs

##### **Ta emot**

**DPT** Djup  
**DBT** Djup under givare  
MTW Vattentemperatur  
VHW Fart genom vattnet och kurs  
WPL Waypointens plats  
**DSC** Digital selektiv anropsinformation  
**DSE** Utökat digitalt selektivt anrop  
HDG Kurs, avvikelse och variation  
HDM Kurs, magnetisk  
MWD Vindens riktning och hastighet  
MDA Meteorologisk sammansättning  
**MWV** Vindens hastighet och vinkel  
VDM AIS, VHF-datalänkmeddelande

#### **NMEA 0183 mottagning ST2000 autopilot**

**Cross Track Error** APB, APA, **RMB**, XTE, XTR  
**Bearing to Waypoint** APB, BPI, BWR, BWC, BER, BEC, **RMB**  
**Distance to Waypoint** WDR, WDC, BPI, BWR, BWC, BER, BEC, **RMB**  
**Waypoint Number** APA, APB, BPI, BWR, WDR, BWC, WDC, **RMB**, BOD, WCV, BER, BEC  
**Speed Through Water** **VHW**  
**Apparent Wind Angle and Speed** VWR

NMEA 0183 datahastigheter 4800 - 115200 baud  
Vanligast 4800 std och 9600.



## Elektronik och nätverk ombord 2024-04-10

### RMB - Recommended Minimum Navigation Information

To be sent by a navigation receiver when a destination waypoint is active.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15  
\$--RMB,A,x.x,a,c--c,c--c,llll.ll,a,yyyyy.yy,a,x.x,x.x,x.x,A,m,\*hh<CR><LF>"

#### Field Number:

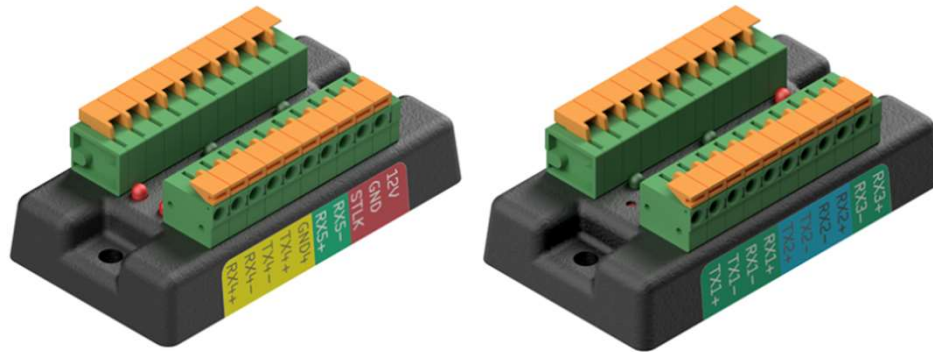
1. Status, A= Active, V = Void
2. Cross Track error - nautical miles
3. Direction to Steer, Left or Right
4. FROM Waypoint ID
5. TO Waypoint ID
6. Destination Waypoint Latitude
7. N or S
8. Destination Waypoint Longitude
9. E or W
10. Range to destination in nautical miles
11. Bearing to destination in degrees True
12. Destination closing velocity in knots
13. Arrival Status, A = Arrival Circle Entered
14. Status A - Data Valid, V - Data Invalid, FAA mode indicator (NMEA 2.3 and later)

RMB in a navigation sentence that combines GPS information with the coordinates of the Waypoint. The data it contains are the result of these calculations on the line that joins the position of the ship and the Waypoint. VMG is the right thing to do.  $VMG = SOG * \cos(COG - BRG)$ . It does not make sense to put the SOG in its place.

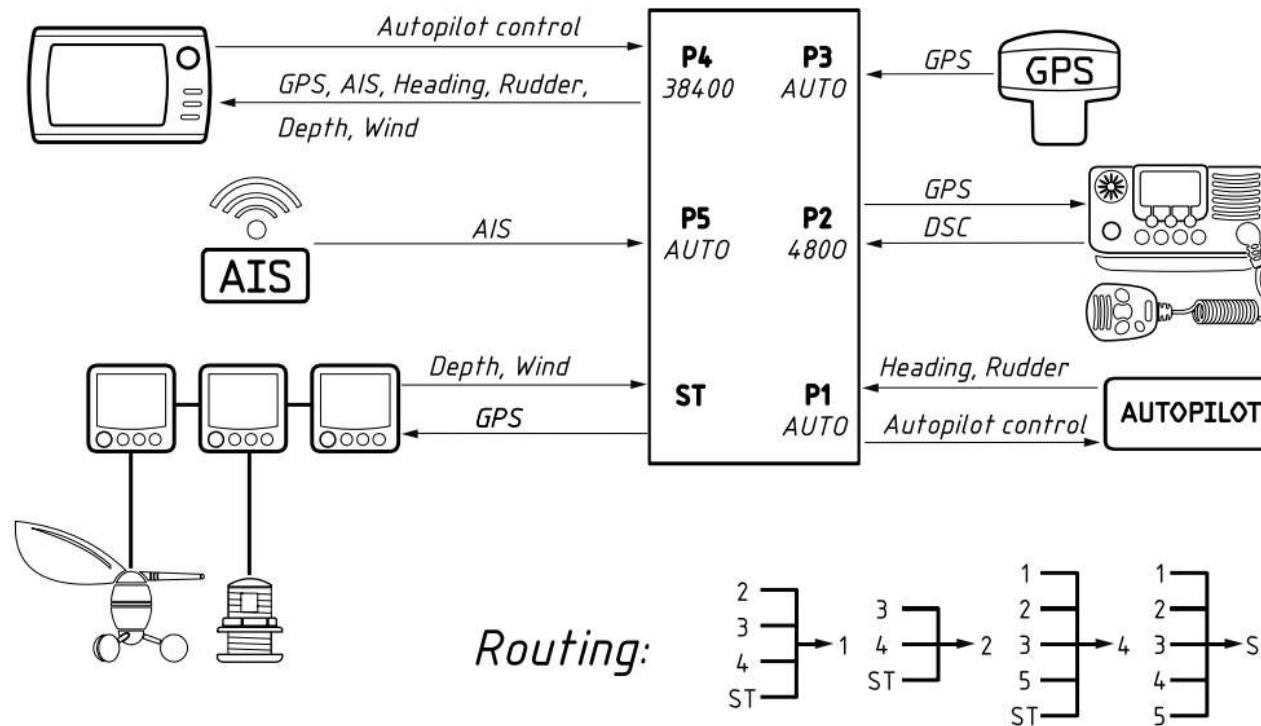


# Elektronik och nätverk ombord 2024-04-10

## NMEA 0183 Multiplexer YDNM-02 Pris ca 2000 SEK



### Preset #1





### MiniPlex-3E-N2K Pris ca 5000 SEK

The MiniPlex-3E-N2K is an advanced multiplexer which combines NMEA 0183 data from multiple sources into one stream.

**Its gateway function provides conversion between NMEA 0183 and NMEA 2000 in both directions.**

It also has two NMEA 0183 outputs and an Ethernet port. Received NMEA 0183 sentences can be individually be routed to each of these outputs.

The Ethernet port is bi-directional, so it can transmit NMEA 0183 data onto an Ethernet network and at the same time, it can receive NMEA0183 data to be routed to one or both NMEA 0183 outputs. Thus, NMEA0183 data can be distributed to multiple devices connected to the network.

Communication speeds up to 115200 baud are supported.

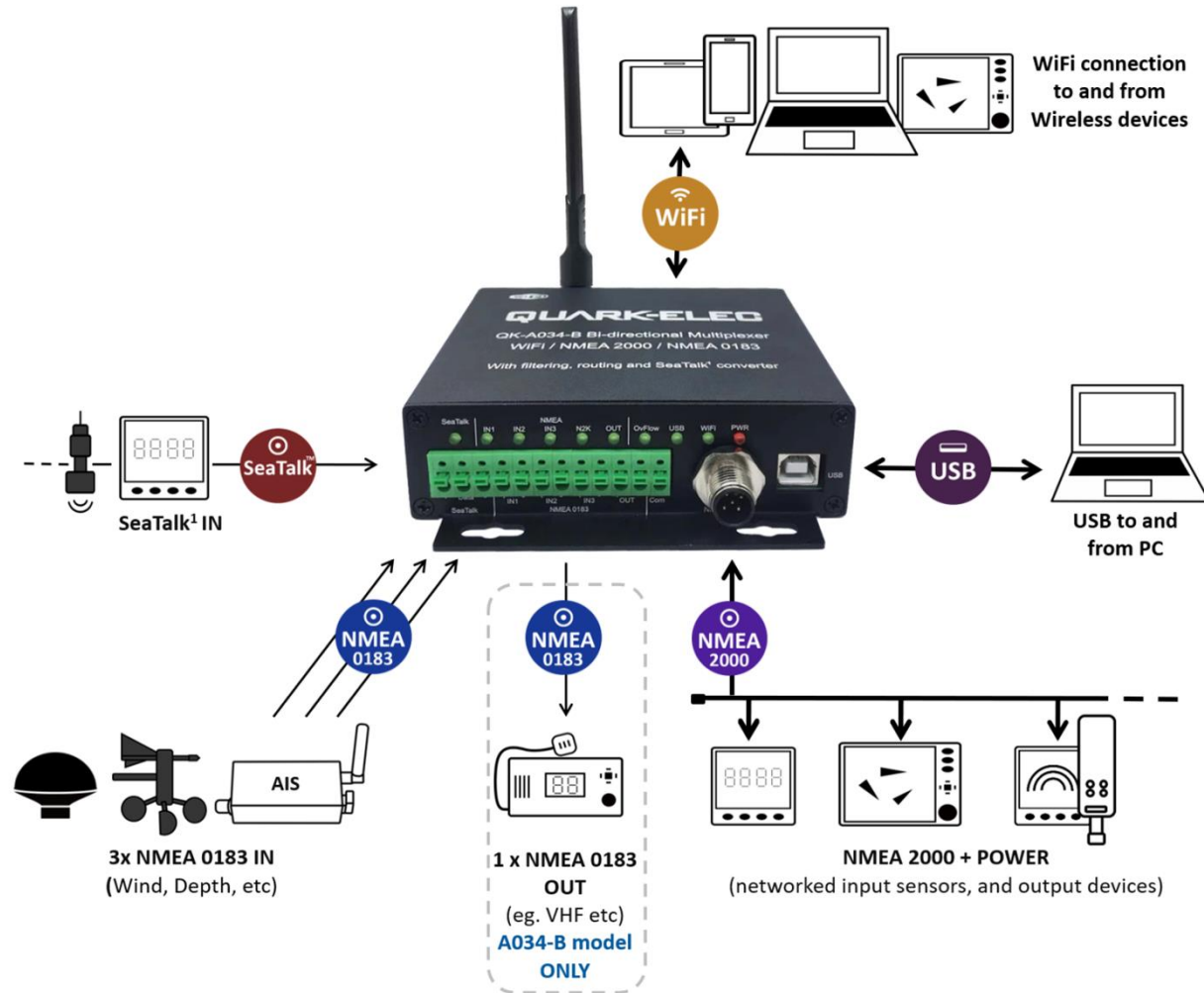
Input 1 can be set to SeaTalk mode, so it can transmit and receive SeaTalk data. Received SeaTalk data is converted to NMEA 0183 while NMEA 0183 data from any input or Ethernet port can be selectively routed and converted to the SeaTalkport.



## Elektronik och nätverk ombord 2024-04-10

Hamble marine electronics on Ebay  
Har en mängd olika konverterare.

**QK-A034B Bi-directional WiFi to NMEA 2000 Gateway Multiplexer  
with NMEA 0183 and SeaTalk input and output. Pris £271**





## Android app: NMEA Dashboard

