# frequently asked questions

**B&G**

## h1000 Universal NMEA Interface, Supported Sentences (r2.04)

### NMEA Input (Received) Summary

| NMEA Sentence | Message Description |
|---|---|
| | |
| APB | Heading/Track Controller (Autopilot) Sentence "B" |
| DBT | Depth Below Transducer |
| DPT | Transducer Depth and Offset |
| GGA | Global Positioning system fix data |
| GLL | Geographic Position, Latitude and Longitude |
| GSA | GNSS DOP and Active Satellites |
| GSV | GNSS Satellites in View |
| HDG | Heading Magnetic, Deviation and Variation |
| MWD | Wind Direction and Speed (TWD °M / °T and TWS) |
| MWV | Wind Speed and Angle (AWS and AWA, flag set to R) |
| RMB | Recommended minimum navigation information |
| RMC | Recommended minimum specific GNSS data |
| VHW | Water Speed and Heading (°M / °T) |
| VTG | Course Over Ground and Speed Over Ground |
| ZDA | Time and Date |
| ZTG | UTC and Time to Destination Waypoint |

### B&G Proprietary NMEA Input (Received) Summary

| | |
|---|---|
| PBGTTBS | Polar speed (knots) |
| PBGTLAY | Distance and Time to Lay-Line |
| PBGTVMG | Angle for best VMG upwind (polar) |
| | Upwind heading for best VMG (polar) |
| | Downwind heading for best VMG (polar) |

### NMEA Output (Transmitted) Summary

| NMEA Sentence | Message Description |
|---|---|
| | |
| DPT | Transducer Depth and Offset |
| GGA | Global Positioning System Fix Data |
| GLL | Geographic Position, Latitude and Longitude |
| HDG | Heading Magnetic, Deviation and Variation |
| HDM | Heading, Magnetic |
| HDT | Heading, True |
| MTW | Water Temperature, °C |
| MWD | Wind Direction and Speed (TWD °M / °T and TWS) |
| MWV | Wind Speed and Angle (AWS and AWA, flag set to R) |
| RMB | Recommended minimum navigation information |
| RMC | Recommended minimum specific GNSS data |
| VHW | Water Speed and Heading (°M / °T) |
| VLW | Distance Travelled through the Water |
| VTG | Course Over Ground and Speed Over Ground |

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