PGN’s NMEA2000

Windrichting/snelheid (PGN 130306)

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| --- |
| { |
|  | "Order":2, |
|  | "Id":"windSpeed", |
|  | "Name":"Wind Speed", |
|  | "BitLength":16, |
|  | "BitOffset":8, |
|  | "BitStart":0, |
|  | "Units":"m/s", |
|  | "Resolution":0.01, |
|  | "Signed":false}, |
|  | { |
|  | "Order":3, |
|  | "Id":"windAngle", |
|  | "Name":"Wind Angle", |
|  | "BitLength":16, |
|  | "BitOffset":24, |
|  | "BitStart":0, |
|  | "Units":"rad", |
|  | "Resolution":0.0001, |
|  | "Signed":false}, |

|  |
| --- |
| { |
|  | "Order":5, |
|  | "Id":"reserved", |
|  | "Name":"Reserved", |
|  | "BitLength":21, |
|  | "BitOffset":43, |
|  | "BitStart":3, |
|  | "Type":"Binary data", |
|  | "Signed":false}]} |

Snelheid van de boot (PGN128259)

|  |
| --- |
| { |
|  | "Order":2, |
|  | "Id":"speedWaterReferenced", |
|  | "Name":"Speed Water Referenced", |
|  | "BitLength":16, |
|  | "BitOffset":8, |
|  | "BitStart":0, |
|  | "Units":"m/s", |
|  | "Resolution":0.01, |
|  | "Signed":false}, |
|  | { |
|  | "Order":3, |
|  | "Id":"speedGroundReferenced", |
|  | "Name":"Speed Ground Referenced", |
|  | "BitLength":16, |
|  | "BitOffset":24, |
|  | "BitStart":0, |
|  | "Units":"m/s", |
|  | "Resolution":0.01, |
|  | "Signed":false} |

Heading van de neus(PGN127250, bits 8–23 en bit 56–57?)

|  |
| --- |
| { |
|  | "Order":2, |
|  | "Id":"heading", |
|  | "Name":"Heading", |
|  | "BitLength":16, |
|  | "BitOffset":8, |
|  | "BitStart":0, |
|  | "Units":"rad", |
|  | "Resolution":0.0001, |
|  | "Signed":false}, |

Rate-of-turn(PGN127251)

|  |
| --- |
| { |
|  | "Order":2, |
|  | "Id":"rate", |
|  | "Name":"Rate", |
|  | "BitLength":32, |
|  | "BitOffset":8, |
|  | "BitStart":0, |
|  | "Units":"rad/s", |
|  | "Resolution":3.125e-08, |
|  | "Signed":true}]}, |

Pitch/Roll(PGN127257?)

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| --- |
|  |
| { |
|  | "Order":3, |
|  | "Id":"pitch", |
|  | "Name":"Pitch", |
|  | "BitLength":16, |
|  | "BitOffset":24, |
|  | "BitStart":0, |
|  | "Units":"rad", |
|  | "Resolution":0.0001, |
|  | "Signed":true}, |
|  | { |
|  | "Order":4, |
|  | "Id":"roll", |
|  | "Name":"Roll", |
|  | "BitLength":16, |
|  | "BitOffset":40, |
|  | "BitStart":0, |
|  | "Units":"rad", |
|  | "Resolution":0.0001, |
|  | "Signed":true}]}, |
|  |  |

Zout en PH waardes (Zout waarde PGN130321 ?)

|  |
| --- |
| { |
|  | "Order":7, |
|  | "Id":"salinity", |
|  | "Name":"Salinity", |
|  | "Description":"The average Salinity of ocean water is about 35 grams of salts per kilogram of sea water (g/kg), usually written as 35 ppt which is read as 35 parts per thousand.", |
|  | "BitLength":32, |
|  | "BitOffset":120, |
|  | "BitStart":0, |
|  | "Units":"ppt", |
|  | "Type":"IEEE Float", |
|  | "Signed":true}, |

)

Water tempratuur(PGN130310 ?)

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| --- |
|  |
| { |
|  | "Order":2, |
|  | "Id":"waterTemperature", |
|  | "Name":"Water Temperature", |
|  | "BitLength":16, |
|  | "BitOffset":8, |
|  | "BitStart":0, |
|  | "Units":"K", |
|  | "Type":"Temperature", |
|  | "Resolution":0.01, |
|  | "Signed":false} |
|  |  |

Doel koers(commando, PGN 127237, bits 40-55?)

Roerstand(PGN 127245)

|  |
| --- |
| { |
|  | "Order":4, |
|  | "Id":"angleOrder", |
|  | "Name":"Angle Order", |
|  | "BitLength":16, |
|  | "BitOffset":16, |
|  | "BitStart":0, |
|  | "Units":"rad", |
|  | "Resolution":0.0001, |
|  | "Signed":true}, |