

NMEA2000-183- Correspondance

Navigation	- Datum	Local geodetic datum and datum offsets from a reference datum. T	DTM
Navigation	128267 - Water Depth	Water depth relative to the transducer and offset of the measuring transducer. Positive offset numbers provide the distance from the transducer to the waterline.	BBT
Navigation	128275 - Distance Log	This PGN provides the cumulative voyage distance traveled since the last reset. The distance is tagged with the time and date of the distance measurement	VLW
Navigation	128520 - Tracked Target Data	Message for reporting status and target data from tracking radar external devices.	TTM
Navigation	129025 - Position, Rapid Update	This PGN provides latitude and longitude referenced to WGS84. Being defined as single frame message, as opposed to other PGNs that include latitude and longitude and are defined as fast or multi-packet, this PGN lends itself to being transmitted more frequently without using up excessive bandwidth on the bus for the benefit of receiving equipment that may require rapid position updates.	GGA
Navigation	129026 - COG & SOG, Rapid Update	This PGN is a single frame PGN that provides Course Over Ground (COG) and Speed Over Ground (SOG).	VTG
Navigation	129027 - Position Delta, High Precision Rapid Update	The "Position Delta, High Precision Rapid Update" Parameter Group is intended for applications where very high precision and very fast update rates are needed for position data. This PGN can provide delta position changes down to 1 millimeter with a delta time period accurate to 5 milliseconds.	
Navigation	129029 - GNSS Position Data	This PGN conveys a comprehensive set of Global Navigation Satellite System (GNSS) parameters, including position information.	GNS
Navigation	129033 - Time & Date	This PGN has a single transmission that provides: UTC time, UTC Date and Local Offset	ZDA
Navigation	129045 - User Datum Settings	Transformation parameters for converting from WGS-84 to other Datums.	DTM
Navigation	129283 - Cross Track Error	This PGN provides the magnitude of position error perpendicular to the desired course.	XTE
Navigation	129284 - Navigation Data	This PGN provides essential navigation data for following a route. Transmissions will originate from products that can create and manage routes using waypoints. This information is intended for navigational repeaters.	RMC
Navigation	129285 - Navigation - Route/WP information	This PGN shall return Route and WP data ahead in the Active Route. It can be requested or may be transmitted without a request, typically at each Waypoint advance.	RTE/WCV/WPL
Navigation	129291 - Set & Drift, Rapid Update	The Set and Drift effect on the Vessel is the direction and the speed of a current.	VDR
Navigation	129301 - Time to/from Mark	Time to go to or elapsed from a generic mark, that may be non-fixed. The mark is not generally a specific geographic point but may vary continuously and is most often determined by calculation (the recommended turning or tacking point for sailing vessels, the wheel-over point for vessels making turns, a predicted collision point, etc.)	
Navigation	129302 - Bearing and Distance between Two Marks	Bearing and distance from the origin mark to the destination mark, calculated at the origin mark, for any two arbitrary generic marks. The calculation type (Rhumb Line, Great Circle) is specified, as well as the bearing reference (Mag, True).	

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Navigation	129538 - GNSS Control Status	GNSS common satellite receiver parameter status	GNS
Navigation	129539 - GNSS DOPs	This PGN provides a single transmission containing GNSS status and dilution of precision components (DOP) that indicate the contribution of satellite geometry to the overall positioning error. There are three DOP parameters reported, horizontal (HDOP), Vertical (VDOP) and time (TDOP).	GGA/GNS
Navigation	129540 - GNSS Sats in View	GNSS information on current satellites in view tagged by sequence ID. Information includes PRN, elevation, azimuth, SNR, defines the number of satellites; defines the satellite number and the information.	
Navigation	129541 - GPS Almanac Data	This PGN provides a single transmission that contains relevant almanac data for GPS products. The almanac contains satellite vehicle course orbital parameters. This information is not considered precise and is only valid for several months at a time. GPS products receive almanac data directly from the satellites. This information would either be transmitted to and from GPS products for update, or system interrogation.	
Navigation	129542 - GNSS Pseudorange Noise Statistics	GNSS pseudorange measurement noise statistics can be translated in the position domain in order to give statistical measures of the quality of the position solution. Intended for use with a Receiver Autonomous Integrity Monitoring (RAIM) application	
Navigation	129545 - GNSS RAIM Output	This PGN is used to provide the output from a GNSS Receiver's Receiver Autonomous Integrity Monitoring (RAIM) process. The Integrity field value is based upon the parameters set in PGN 130059 GNS RAIM Settings.	
Navigation	129546 - GNSS RAIM Settings	This PGN is used to report the control parameters for a GNSS Receiver Autonomous Integrity Monitoring (RAIM) process.	
Navigation	129547 - GNSS Pseudorange Error Statistics	This parameter group is used to support Receiver Autonomous Integrity Monitoring (RAIM). Pseudorange measurement error statistics can be translated in the position domain in order to give statistical measures of the quality of the position solution.	
Navigation	129549 - DGNSS Corrections	This PGN provides a means to pass differential GNSS corrections between NMEA 2000 devices. Passing DGNSS data this way allows for more flexibility than traditional methods. One differential correction receiver could supply multiple GNSS receivers. Multiple differential correction receivers or data streams could be connected to a GNSS receiver allowing for network DGNSS approaches. This PGN can accommodate DGPS and DGLONASS corrections.	
Navigation	129550 - GNSS Differential Correction Receiver Interface	GNSS common differential correction receiver parameter status.	
Navigation	129551 - GNSS Differential Correction Receiver Signal	GNSS differential correction receiver status tagged by sequence ID. Status information includes frequency, SNR, and use as a correction source.	

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Navigation	129556 - GLONASS Almanac Data	This PGN provides a single transmission that contains relevant almanac data for Glonass products. The almanac contains satellite vehicle course orbital parameters. This information is not considered precise and is only valid for several months at a time. Glonass products receive almanac data directly from the satellites. This information would either be transmitted to and from Glonass products for update, or system interrogation.	
Navigation	130052 - Loran-C TD Data	This provides Time Difference (TD) lines of position of Loran-C signals relative to a single Group Repetition Interval.	
Navigation	130053 - Loran-C Range Data	This provides Propagation times (Ranges) of Loran-C signals relative to a single Group Repetition Interval.	
Navigation	130054 - Loran-C Signal Data	SNR, ECD, and ASF values of Loran-C signals	
Navigation	130064 - Route and WP Service - Database List	Complex request for this PGN should return a list of Databases in which a navigation Device organizes its Routes and WPs. A Database may contain one WP-List and multiple Routes.	RTE/WPL
Navigation	130065 - Route and WP Service - Route List	Complex request for this PGN should return a list of Routes in a Database.	RTE
Navigation	130066 - Route and WP Service - Route/WP-List Attributes	Complex request for this PGN should return the attributes of a Route or the WP-List.	RTE/WPL
Navigation	130067 - Route and WP Service - Route - WP Name & Position	Complex request of this PGN should return the Waypoints belonging to a Route.	
Navigation	130068 - Route and WP Service - Route - WP Name	Complex request of this PGN should return the Waypoints belonging to a Route.	
Navigation	130069 - Route and WP Service - XTE Limit & Navigation Method	Complex request of this PGN will return XTE Limit and/or Navigation Method specific to individual legs of a Route.	XTE
Navigation	130070 - Route and WP Service - WP Comment	Complex request of this PGN should return supplementary Comments attached to Waypoints in a Route or a WP-List	WPL
Navigation	130071 - Route and WP Service - Route Comment	Complex request of this PGN should return supplementary Comments attached to Routes.	
Navigation	130072 - Route and WP Service - Database Comment	Complex request of this PGN should return supplementary Comments attached to Databases in the navigation Device.	
Navigation	130073 - Route and WP Service - Radius of Turn	Complex request of this PGN should return the Radius of Turn at specific Waypoints of a Route.	
Navigation	130074 - Route and WP Service - WP List - WP Name & Position	Complex request of this PGN should return the Waypoints of a WP-List.	WPL