NMEA 0183 Rx Sentence to NMEA 2000 Tx PGN List		
NMEA 0183 Formatter	**Description**	**NMEA 2000 PGNs transmitted when NMEA 0183 sentence is received**
AAM	Waypoint Arrival Alarm	129284
ABM	AIS Addressed binary and safety related message	129795, 129797, 129811, 129812
APB	Heading/Track Controller (Autopilot) Sentence 'B'	127237, 129283, 129284
BBM	AIS Broadcast Binary Message	129795, 129797, 129811, 129812
BWC	Bearing & Distance to Waypoint (Great Circle)	129284
DBT	Depth Below Transducer	128267
DPT	Depth	128267
DSC	Digital Selective Calling Information	129808
DSE	Expanded Digital Selective Calling	129808
GGA	Global Positioning System Fix Data	126992, 129025, 129029, 129033
GLL	Geographic Position Latitude/Longitude	126992, 129025, 129029, 129033
GSA	GNSS DOP and Active Satellites	129029, 129539
GST	GNSS Pseudo range Error Statistics	129547
GSV	GNSS Satellites in View	129540
HDG	Heading, Deviation & Variation	127250, 127258
HDM	Heading, Magnetic	127250
HDT	Heading, True	127250
HSC	Heading Steering Command	127237
MDA	Meteorological Composite	130306, 130310, 130311, 130312
MTW	Water Temperature	130310, 130311, 130312
MWD	Wind Direction & Speed	130306
MWV	Wind Speed and Angle (Relative/Theoretical)	130306
RMB	Recommended Minimum Navigation Information	129283, 129284
RMC	Recommended Minimum Specific GNSS Data	126992, 127250*, 127258, 129025, 129026, 129029,129033
ROT	Rate Of Turn	127251
RPM	Revolutions	127488
RSA	Rudder Sensor Angle	127245
VBW	Dual Ground/Water Speed	130578
VDM	AIS VHF Datalink Message: 1, 2, 3, 4, 5, 6, 8, 9, 12, 14, 18, 19, 21, 24, 25, 26	129038, 129039, 129040, 129041, 129793, 129794,129795, 129797, 129798, 129801, 129802, 129809,129810, 129811, 129812
VDO	AIS VHF Datalink Own vessel report: 1, 2, 3, 4, 5, 6, 8, 9, 12, 14, 18, 19, 21, 24, 25, 26	129038, 129039, 129040, 129041, 129793, 129794,129795, 129797, 129798, 129801, 129802, 129809,129810, 129811, 129812
VDR	Set and Drift	129291
VHW	Water Speed and Heading	127250, 128259
VLW	Dual Ground/Water Distance	128275
VTG	Course Over Ground and Ground Speed	129026
VWR	Relative (Apparent) Wind Speed and Angle	130306
XTE	Cross Track Error, Measured	129283
ZDA	Time & Date	126992, 129029, 129033
XDR	Transducer Measurements	130311,130312

NMEA 2000 PGN	Description	NMEA 0183 Sentences transmitted when NMEA 2000 PGN is received
126992 [1F010]	System Time	ZDA
127237 [1F105]	Heading/Track Control	APB
127245 [1F10D]	Rudder	RSA,ROR
127250 [1F112]	Vessel Heading	HDG, HDM or HDT*, VHW
127251 [1F113]	Rate of Turn	ROT
127258 [1F11A]	Magnetic Variation	HDG
128267 [1F50B]	Water Depth	DBT, DPT
128275 [1F513]	Distance Log	VLW
129025 [1F801]	Position, Rapid Update	GGA, GLL, RMC
129026 [1F802]	COG & SOG, Rapid Update	VTG
129029 [1F805]	GNSS Position Data	GGA, GLL,RMC, ZDA
129033 [1F809]	Local Time Offset	ZDA
129038 [1F80E]	AIS Class A Position Report	VDM, VDO (AIS VHF Data-link message 1,2 & 3)
129039 [1F80F]	AIS Class B Position Report	VDM, VDO (AIS VHF Data-link message 18)
129040 [1F810]	AIS Class B Extended Position Report	VDM, VDO (AIS VHF Data-link message 19)
129041 [1F811]	AIS Aids to Navigation (AtoN) Report	VDM, VDO (AIS VHF Data-link message 21)
129044 [1F814]	Datum	DTM
129283 [1F903]	Cross Track Error	APB, XTE
129284 [1F904]	Navigation Data	APB, BWC,BOD、BWW
129291 [1F90B]	Set & Drift, Rapid Update	VDR
129539 [1FA03]	GNSS DOPs	GSA
129540 [1FA04]	GNSS Sats in View	GSV
129793 [1FB01]	AIS UTC and Date Report	VDM, VDO (AIS VHF Data-link message 4)
129794 [1FB02]	AIS Class A Static and Voyage Related Data	VDM, VDO (AIS VHF Data-link message 5)
129795 [1FB03]	AIS Addressed Binary Message	ABM (AIS VHF Data-link message 6)
129797 [1FB05]	AIS Binary Broadcast Message	BBM (AIS VHF Data-link message 8)
129798 [1FB06]	AIS SAR Aircraft Position Report	VDM, VDO (AIS VHF Data-link message 9)
129801 [1FB09]	AIS Addressed Safety Related Message	VDM, VDO (AIS VHF Data-link message 12)
129802 [1FB0A]	AIS Safety Related Broadcast Message	VDM, VDO (AIS VHF Data-link message 14)
129809 [1FB11]	AIS Class B 'CS' Static Data Report, Part A	VDM, VDO (AIS VHF Data-link message 24)
129810 [1FB12]	AIS Class B 'CS' Static Data Report, Part B	VDM, VDO (AIS VHF Data-link message 24)
129811 [1FB13]	AIS Single Slot Binary Message	ABM, BBM (AIS VHF Data-link message 25)
129812 [1FB14]	AIS Multi Slot Binary Message	ABM, BBM (AIS VHF Data-link message 26)
130306 [1FD02]	Wind Data	MDA, MWD, MWV, VWR
130310 [1FD06]	Environmental Parameters - DEPRECATED	MDA, MTW
130311 [1FD07]	Environmental Parameters - DEPRECATED	MDA, MTW
130312 [1FD08]	Temperature - DEPRECATED	MDA, MTW

Remark :

1. Waypoint : Suggest to use numbers as waypoint ID in NMEA0183 otherwise will appear abnormal after converted to NMEA2000 PGN
   Example : If a waypoint ID is " A001" in NMEA0183, it will appear as "0" after converted to NMEA2000 PGN
2. The "Transducer ID" field in XDR needs to follow the suggestion of NMEA0183 standard, otherwise it may not meet expectations