Actisense NMEA 2000 Gateway conversions (issue 2.420)

Part Code   NGW-1
Firmware   v 2.420
Date   8th May 2014

The **NMEA 0183 to NMEA 2000** conversions that are currently available.

NMEA 0183 Formatter	Description	NMEA 2000 PGNs that are sent when this NMEA 0183 sentence is received	NMEA 2000 PGNs that require additional data before being sent
APB	Heading/Track Controller (Autopilot) Sentence "B"	127237, 129283, 129284	
DBT	Depth Below Transducer	128267	
DPT	Depth	128267	
GGA	Global Positioning System Fix Data	126992, 129025, 129029, 129033, 129539	
GLL	Geographic PositionLatitude/Longitude	126992, 129025, 129029, 129033	
GSA	GNSS DOP and Active Satellites	129029, 129539	
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	*HDG also recommended
ROT	Rate Of Turn	127251	
RPM	Revolutions	127488	
RSA	Rudder Sensor Angle	127245	
VBW	Dual Ground/Water Speed	130578	
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	129029
VWR	Relative (Apparent) Wind Speed and Angle	130306	
XTE	Cross Track Error, Measured	129283	
ZDA	Time & Date	126992, 129029, 129033	

The **NMEA 2000 to NMEA 0183** conversions that are currently available.

NMEA 2000 PGN	Description	NMEA 0183 Sentences that are sent when this NMEA 2000 PGN is received	NMEA 0183 Sentences that require additional data before being sent
126992 [1F010]	System Time	ZDA	GGA, GLL, RMC
127237 [1F105]	Heading/Track Control	APB	
127245 [1F10D]	Rudder	RSA	
127250 [1F112]	Vessel Heading	HDG, VHW	RMC
127251 [1F113]	Rate of Turn	ROT	
127258 [1F11A]	Magnetic Variation	HDG	RMC
128259 [1F503]	Speed, Water referenced	VHW	
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	RMC, VTG	
129029 [1F805]	GNSS Position Data	GGA, GLL, GSA, RMC, ZDA	VTG
129033 [1F809]	Time & Date	ZDA	GGA, GLL, RMC
129044 [1F814]	Datum	DTM	
129283 [1F903]	Cross Track Error	APB, RMB, XTE	
129284 [1F904]	Navigation Data	APB, RMB	
129291 [1F90B]	Set & Drift, Rapid Update	VDR	GGA
129539 [1FA03]	GNSS DOPs	GSA	
129540 [1FA04]	GNSS Sats in View	GSV	
130306 [1FD02]	Wind Data	MDA, MWD, MWV, VWR	
130310 [1FD06]	Environmental Parameters	MDA, MTW	
130311 [1FD07]	Environmental Parameters	MDA, MTW	
130312 [1FD08]	Temperature	MDA, MTW	