



Date: June 16, 2009

Ref: End user report/request for clarification

National Marine Electronics Association Technical Corrigendum Number 3-2009

1. Correction to error reported in version 1.300 that PGN130313 was listed with no destination type identified. Destination set to “Global”
2. Correction to error reported in version 1.300 that PGN130315 was listed with no destination type identified. Destination set to “Global”

Documents Affected

- Appendix B Version 1.300 and earlier.

Changes to NMEA 2000 Appendix B

Replace the following parameter group definitions with those accompanying this document:

PGN	Parameter Group Name
130313	Humidity
130315	Set Pressure

Humidity

PGN: 130313

hex: 1FD09

This PGN contains the Sequence ID, a Humidity Instance, Humidity Source, the Actual Humidity, and the Set Humidity Value. For example the Humidity might be Inside as defined by the Humidity Source (field 3) with a Humidity Instance (field 2) of 2. Using Set Humidity (field 5) this PGN can also be used to control humidity or to report a targeted humidity. This PGN is a rework of PGN 130311 and was introduced in version 1.210 of this standard, it is to be used for new designs.

Single Frame: **Yes** Priority Default: **5** Default Update Rate: **NA** milliseconds Frequency: **NA** cycles per second
 Destination: **Global** Query Support: **Opt'l** ACK Rqmnts:

Field # Field Name Original Reference ID # 198

1	SID		Byte Field Size: 1	Bit Field Size:	Request Parameter No
	DD056 Sequence ID		An upward counting number used to tie related information together between different PGNs . For example, the SID would be used to tie together the COG, SOG and RAIM values to a given position. 255=no valid position fix to tie it to. Range 0 to 250 for valid position fixes.		
	DF53 Integer, 8 bit unsigned	uint8	Range: 0 to 252	Resolution: 1 bit	Unit-less number
2	Humidity Instance		Byte Field Size:	Bit Field Size: 8	Request Parameter No
	DD128 Generic instance		For Engines: 0 = Instance 0; 0 = Single Engine or Dual Engine Port 1 = Instance 1; 1 = Dual Engine StarBoard (for Multiple Engines, Instances will start from Bow, Port (0) to Stern, Starboard (n)) n = Instance n, where n < 253 253 = Reserve 254 = Error; 255 = Not available		
	DF52 Bit field	bit(n)	Range: Variable	Resolution: 1	Used to construct bit fields
3	Humidity Source		Byte Field Size:	Bit Field Size: 8	Request Parameter No
	DD292 Humidity Source		00 = Inside Humidity 01 = Outside Humidity 02 through 128 Reserved 129 through 252 Generic Humidity Sources other than those defined 253 = Not Supported 254 = Error 255 = No Change / Data Not Available		
	DF52 Bit field	bit(n)	Range: Variable	Resolution: 1	Used to construct bit fields
4	Actual Humidity		Byte Field Size: 2	Bit Field Size:	Request Parameter No
	DD231 Humidity		Relative Humidity		
	DF84 Percent, Relative Measure, Medium	int16	Range: -131.072% to 131.056%	Resolution: .004%	
5	Set Humidity		Byte Field Size: 2	Bit Field Size:	Request Parameter No
	DD231 Humidity		Relative Humidity		
	DF84 Percent, Relative Measure, Medium	int16	Range: -131.072% to 131.056%	Resolution: .004%	
6	Reserve Bits		Byte Field Size:	Bit Field Size: resv 8	Request Parameter No
	DD001 Reserved field		Variable number of reserved bits, all set to logic "1"		
	DF52 Bit field	bit(n)	Range: Variable	Resolution: 1	Used to construct bit fields

Set Pressure

PGN: 130315

hex: 1FD0B

This PGN contains the Sequence ID, a Pressure Instance, Pressure Source, and the Set Pressure Value. This PGN can be sent to a device that controls pressure to change its targeted pressure, or it can be sent out by the control device to indicate its current targeted pressure. This PGN is a rework of PGN 130311 and was introduced in version 1.210 of this standard, it is to used for new designs.

Single Frame: **Yes** Priority Default: **5** Default Update Rate: **NA** milliseconds Frequency: **NA** cycles per second
 Destination: **Global** Query Support: **Opt'l** ACK Rqmnts:

Field #	Field Name	Byte Field Size	Bit Field Size	Request Parameter	Original Reference ID # 197
1	SID	1		No	
	DD056 Sequence ID		An upward counting number used to tie related information together between different PGNs . For example, the SID would be used to tie together the COG, SOG and RAIM values to a given position. 255=no valid position fix to tie it to. Range 0 to 250 for valid position fixes.		
	DF53 Integer, 8 bit unsigned	uint8	Range: 0 to 252	Resolution: 1 bit	Unit-less number
2	Pressue Instance			No	
	DD128 Generic instance		For Engines: 0 = Instance 0; 1 = Instance 1; thru n = Instance n, where n < 253 253 = Reserve 254 = Error; 255 = Not available		0 = Single Engine or Dual Engine Port 1 = Dual Engine StarBoard (for Multiple Engines, Instances will start from Bow, Port (0) to Stern, Starboard (n))
	DF52 Bit field	bit(n)	Range: Variable	Resolution: 1	Used to construct bit fields
3	Pressure Source			No	
	DD289 Pressure Source		00 = Atmospheric Pressure 01 = Water Pressure 02 = Steam Pressure 03 = Compressed Air Pressure 04 = Hydraulic Pressure 05 through 128 Reserved 129 through 252 Generic Pressure Sources other than those defined 253 = Reserved 254 = Error 255 = No Change / Data Not Available		
	DF52 Bit field	bit(n)	Range: Variable	Resolution: 1	Used to construct bit fields
4	Pressure	4		No	
	DD290 Pressure				
	DF103 Pressure	int32	Range: +/- 2.1E8	Resolution: 1E-1 Pa	
5	Reserve Bits			No	
	DD001 Reserved field		Variable number of reserved bits, all set to logic "1"		
	DF52 Bit field	bit(n)	Range: Variable	Resolution: 1	Used to construct bit fields