

XDi 144/192 Navi

GPS & Info Displays

MAIN GPS					
LAT			428' N		
LON	017	19.	024' E		
COG	028.9°	SOG	99.9 kn		
UTC	00:00:00	Date	19-01-2022		

Library owner: DEIF STANDARD NAV

Library number: 22

Library version: 2002

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Library description :

This library contains a collection of GPS data indicators.

Default CAN node ID: 40

IMPORTANT: When NMEA data (IEC 61162-1) is used as input then make sure data is available on input RX1 or RX3 and run a NMEA setup as the last step in the setup wizard.

If dimming data via NMEA is not periodic, then you may have to activate the NMEA dimmer to get it recognised as source during the NMEA source scan.

RX/TX 2 (RS485) may be used as input but is not opto-isolated according to IEC 61162-1 and must be manually selected after input scanning is completed.

The default bit rate is 4.8 kbps this can be changed for COM-port 1, 2 or 3 on the NX2 module on either Slot 2 (default) or Slot 1.

Libra	Library status symbols :					
0	Released & Locked					
>	Approved					
+	Pending					
Å	Draft					
0	Not approved					

XDi Library Information



Timestamp 21-02-2023 12:56:22

orary Specification	
Library owner no. :	000003
Library owner name :	DEIF STANDARD NAV
Product type :	XDi 144/192
Performance class :	Navi
Library number :	22
Library name :	GPS & Info Displays
Library orientation :	Landscape
Library status :	Released & Locked
Library version :	2002
Last changed :	21-02-2023 12:56:12
Library default settings	
180 display rotation :	False
CAN NodelD :	40
Library notes :	
	The UTC time presentation was limited to 15:59:59 after that time issue is fix fixed in this release.
 18-11-2022/ATH, ver; 200 - Updated to get images fo	1: or PDF to load properly (images in PDF were missing for VI3 and 4)
 17-11-2022/ATH, ver; 2000 - First release	D:

Product profiles (PP)



Default settings of product and system related parameters, as dimmer and CANbus settings are stored in a product profile.

Timestamp	21-0	12-2023	12:56:22

PP No.	PP Name	Description	Status	21-02-2023 12:56:22
FF NU.	FF Name	Description		Notes
1	PP01 Front dimmer	Dimmer from front buttons and/or via XDi-net. Default: Dim gr1. Auto day/night colour shift at 70%. RX/TX dimmer value on XDi-net. NMEA-in requires NX2 module Default: COM1 or 3 at 4.8 kbps Supported NMEA sentences: LAT/LON: GGA, RMC, GLL COG True: RMC, VTG, VTGcc. SOG: VTG, VBW, RMC UTC Time: ZDA, RMC, GGA, GLL UTC Date: ZDA, RMC Shares selected NMEA data on XDi-net		In an XDi-net system any XDi in a group can control the groups dimmer level when it uses this product profile. In the user menu the VI day/night mode settings can be changed or fixed day or night mode can be selected. COM2 RS485 (not opto-isolated) can also be used as NMEA input, but sentence must be manually selected after an input scan. Note: If dimmer is sent periodically on XDi-net only one unit should control the dimmer group on CAN. If dim data is only sent on the push of a button (e.g. XDi front buttons) more units can control the dimmer level in the group.
2	PP02 Analogue	Analogue dimmer AX1 module required on Slot 1 Dimmer potentiometer from Vref (term.3) to 0V (term.1) and wiper to term. 2. Default: Dim gr1. Auto Day/Night at 70%, Dim value shared on XDi-net NMEA-in requires NX2 module in Slot2. Default: COM1 or 3 at 4.8 kbps Supported NMEA sentences: LAT/LON: GGA, RMC, GLL COG True: RMC, VTG, VTGcc. SOG: VTG, VBW, RMC UTC Time: ZDA, RMC, GGA, GLL UTC Date: ZDA, RMC Shares selected NMEA data on XDi-net		In an XDi-net system, one XDi with analogue dimmer input (AX1) can control the groups dimmer level Other XDi units in the group should use PP01 (Default Gr.1. but can be changed). The AX1 module must be located in slot 1, if an NX2 module is needed for variable data input, it must be connected to Slot 2. If you shift dimmer group for this unit via the user menu, the analogue input will control the new group.

PP No.	PP Name	Description	Status	Notes
3	PP03 NMEA Gr.1	NMEA dimmer Gr.1 NX2 module is required for NMEA Without NX2 dimming is via XDi-net. DIMMER GR. 1 Auto Day/Night at 70%, Dim value shared on XDi-net Default: COM1 or 3 at 4.8 kbps Supported NMEA sentences: LAT/LON: GGA, RMC, GLL COG True: RMC, VTG, VTGcc. SOG: VTG, VBW, RMC UTC Time: ZDA, RMC, GGA, GLL UTC Date: ZDA, RMC Dimmer: DDC Shares selected NMEA data on XDi-net		In an XDi-net system any XDi in group 1 can control the groups dimmer level when it uses this product profile. The NX2 module can be in either Slot 1 or Slot 2. Variable data not received via NMEA on the NX2 module on this unit, may be received via XDi-net (CAN). Note1: if you change Dim group, NMEA dimmer will no longer work - it must be group 1. Note2: If NMEA dimmer is sent periodically only one unit should control a dimmer group on CAN. If dim data is only sent on the push of a button more units can control the dimmer level in the group.
4	PP04 NMEA Gr.2	NMEA dimmer Gr.2 NX2 module is required for NMEA Without NX2 dimming is via XDi-net. DIMMER GR. 2 Auto Day/Night at 70%, Dim value shared on XDi-net Default: COM1 or 3 at 4.8 kbps Supported NMEA sentences: LAT/LON: GGA, RMC, GLL COG True: RMC, VTG, VTGcc. SOG: VTG, VBW, RMC UTC Time: ZDA, RMC, GGA, GLL UTC Date: ZDA, RMC Dimmer: DDC Shares selected NMEA data on XDi-net		In an XDi-net system any XDi in group 2 can control the groups dimmer level when it uses this product profile.
5	PP05 NMEA Gr.3	NMEA dimmer Gr.3 NX2 module is required for NMEA Without NX2 dimming is via XDi-net. DIMMER GR. 3 Auto Day/Night at 70%, Dim value shared on XDi-net Default: COM1 or 3 at 4.8 kbps Supported NMEA sentences: LAT/LON: GGA, RMC, GLL COG True: RMC, VTG, VTGcc. SOG: VTG, VBW, RMC UTC Time: ZDA, RMC, GGA, GLL UTC Date: ZDA, RMC Dimmer: DDC Shares selected NMEA data on XDi-net		In an XDi-net system any XDi in group 3 can control the groups dimmer level when it uses this product profile.

PP No.	PP Name	Description	Status	Notes
6	PP06 NMEA Gr.4	NMEA dimmer Gr.4 NX2 module is required for NMEA Without NX2 dimming is via XDi-net. DIMMER GR. 4 (to 6) Auto Day/Night at 70%, Dim value shared on XDi-net Default: COM1 or 3 at 4.8 kbps Supported NMEA sentences: LAT/LON: GGA, RMC, GLL COG True: RMC, VTG, VTGcc. SOG: VTG, VBW, RMC UTC Time: ZDA, RMC, GGA, GLL UTC Date: ZDA, RMC Dimmer: DDC Shares selected NMEA data on XDi-net		In an XDi-net system any XDi in group 4 can control the groups dimmer level when it uses this product profile. You can change to use NMEA control of Dimmer gr. 5 and 6 via the NMEA input setup menu, but you must select the NMEA source manually - auto select will only select source for group 4. In the user menu you can also change the dimmer group controlling this XDi unit. Note1: Dim gr. must be group 4, 5 or 6, if you change to anothe r group NMEA dimmer will no longer work. Note2: If NMEA dimmer is sent periodically only one unit should control a dimmer group on CAN. If dim data is only sent on the push of a button more units can control the dimmer level in the group.
7	PP07 NMEA Gr.1DC	NMEA dimmer / colour Gr.1 NX2 module is required for NMEA Without NX2 dimming is via XDi-net. DIMMER GR. 1 NMEA dimmer and Day/Night control Dim and Day/Night shared on XDi-net Default: COM1 or 3 at 4.8 kbps Supported NMEA sentences: LAT/LON: GGA, RMC, GLL COG True: RMC, VTG, VTGcc. SOG: VTG, VBW, RMC UTC Time: ZDA, RMC, GGA, GLL UTC Date: ZDA, RMC Dimmer and Day/Night colour: DDC Shares selected NMEA data on XDi-net		In an XDi-net system any XDi in group 1 can control the groups dimmer level and Day/Night when it uses this product profile.

PP No.	PP Name	Description	Status	Notes
8	PP08 NMEA Gr.2DC	NMEA dimmer / colour Gr.2 NX2 module is required for NMEA Without NX2 dimming is via XDi-net. DIMMER GR. 2 NMEA dimmer and Day/Night control Dim and Day/Night shared on XDi-net Default: COM1 or 3 at 4.8 kbps Supported NMEA sentences: LAT/LON: GGA, RMC, GLL COG True: RMC, VTG, VTGcc. SOG: VTG, VBW, RMC UTC Time: ZDA, RMC, GGA, GLL UTC Date: ZDA, RMC Dimmer and Day/Night colour: DDC Shares selected NMEA data on XDi-net		In an XDi-net system any XDi in group 2 can control the groups dimmer level and Day/Night, when it uses this product profile.
9	PP09 NMEA Gr.3DC	NMEA dimmer / colour Gr.3 NX2 module is required for NMEA Without NX2 dimming is via XDi-net. DIMMER GR. 3 NMEA dimmer and Day/Night control Dim and Day/Night shared on XDi-net Default: COM1 or 3 at 4.8 kbps Supported NMEA sentences: LAT/LON: GGA, RMC, GLL COG True: RMC, VTG, VTGcc. SOG: VTG, VBW, RMC UTC Time: ZDA, RMC, GGA, GLL UTC Date: ZDA, RMC Dimmer and Day/Night colour: DDC Shares selected NMEA data on XDi-net		In an XDi-net system any XDi in group 3 can control the groups dimmer level and Day/Night when it uses this product profile.
10	PP10 NMEA Gr.4DC	NMEA dimmer / colour Gr.4 NX2 module is required for NMEA Without NX2 dimming is via XDi-net. DIMMER GR. 4 (to 6) NMEA dimmer and Day/Night control Dim and Day/Night shared on XDi-net Default: COM1 or 3 at 4.8 kbps Supported NMEA sentences: LAT/LON: GGA, RMC, GLL COG True: RMC, VTG, VTGcc. SOG: VTG, VBW, RMC UTC Time: ZDA, RMC, GGA, GLL UTC Date: ZDA, RMC Dimmer and Day/Night colour: DDC Shares selected NMEA data on XDi-net		In an XDi-net system any XDi in group 4 can control the groups dimmer level and Day/Night colour when it uses this product profile. You can change to use NMEA control of Dimmer gr. 5 and 6 via the NMEA input setup menu, but you must select the NMEA source manually - auto select will only select source for group 4. In the user menu you can also change the dimmer group controlling this XDi unit.

Virtual Indicators (VI)



The VI contains the graphical layout of and indicator and defines all data types that are presented on the indicator.

Each VI has at least one VI-setup profile (VS) that defines the input types and default parameter settings.

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VI No.	Name	VI-setup profiles (VS)	Approvals	Status
001	Basic	1	۲	•
002	Extended	1	*	8
003	Basic 2 sc.	1	۲	0
004	Extended 2 sc.	1	🖗 🚧	0

Approvals only apply for XDi 192.



Timestamp 21-02-2023 12:56:22 VI 001 Basic Screen 1 Screen 1 MAIN GPS 056 57.428' N LAT 017 19.024[•] E LON cog 028.9° 99.9 SOG kn UTC 00:00:00 Date 19-01-2022 **Description**: **GPS Basic** Digital indication of GPS position data, UTC date / time, speed / course over ground Selectable headlines and speed unit Ω Status : VI Notes : VI-setup profiles (VS) for VI001 VS No. Name Description Status Notes

		•	
1	VS01 NMEA	NMEA0183	a
		Requires NX2 extension module to receive NMEA data.	
		Run NMEA auto input setup to configure	
		If NX2 is not present XDi-net data is used.	

VI 002	Extended					
Screen 1	Screen 1					
		MAI	N GPS			
	Status:	DGPS		Satellites: 13		
	LAT			428' N		
	LON	017	19.	024' E		
	COG	028.9°	SOG	99.9 kn		
	UTC	00:00:00	Date	19-01-2022		
Description :	GPS Exter	nded				
	Digital indic satellites co	cation of GPS position data, onnected	, UTC date/tin	ne, course / speed ove	r ground, GPS status, n.o.	
	Selectable	headlines and speed unit				
Status :	0					
VI Notes :						
VI-setup profiles (VS) for VI002						
VS No. Name)	Description		Status	Notes	
1 VS01	NMEA	NMEA0183				
		Requires NX2 extensior to receive NMEA data.	n module			
		Run NMEA auto input s	etup to config	ure		

If NX2 is not present XDi-net data is used.

VI 003	Basic 2 sc.					
Screen 1	Screen 1					
	MAIN GPS					
	LAT 056 57.428' N					
	LON 017 19.024' E					
	cog 028.9° sog 99.9 kn					
	UTC 00:00:00 Date 19-01-2022					
Screen 2	Screen 2					
	SECONDARY GPS					
	LAT 056 57.428' N					
	LON 017 19.024' E					
	cog 028.9° sog 99.9 kn					
	UTC 00:00:00 Date 19-01-2022					
Description :	GPS Basic w/ secondary					
	Digital indication of GPS position data, UTC date / time, speed / course over ground					
	Two screens (Main and Sec. GPS) with possibility to setup two instances of each data input. Selectable headlines and speed unit					
Status :						
VI Notes :						

VI-setup profiles (VS) for VI003							
VS No.	Name	Description	Status	Notes			
1	VS01 NMEA	NMEA0183	0				
		Requires NX2 extension module to receive NMEA data.					
		Run NMEA auto input setup to configure					
		If NX2 is not present XDi-net data is used.					

VI 004	Extended 2 sc.					
Screen 1	Screen 1					
	MAIN GPS					
	Status: DGPS Satellites: 13					
	LAT 056 57.428' N					
	LON 017 19.024' E					
	cog 028.9° sog 99.9 kn					
	UTC 00:00:00 Date 19-01-2022					
Screen 2	Screen 2					
	SECONDARY GPS Status: DGPS Satellites: 13					
	LAT 056 57.428' N					
	LON 017 19.024' E					
	cog 028.9° sog 99.9 kn					
	UTC 00:00:00 Date 19-01-2022					
Description :	GPS Extended w/ secondary					
	Digital indication of GPS position data, UTC date/time, course / speed over ground, GPS status, n.o. satellites connected Two screens (Main and Sec. GPS) with possibility to setup two instances of each data input. Selectable headlines and speed unit					
Status :						
VI Notes:						

VI-setup profiles (VS) for VI004							
VS No.	Name	Description	Status	Notes			
1	VS01 NMEA	NMEA0183	0				
		Requires NX2 extension module to receive NMEA data.					
		Run NMEA auto input setup to configure					
		If NX2 is not present XDi-net data is used.					