XDi 96 Navi

Heading

Library owner: DEIF STANDARD NAV

Library number: 1

Library version: 2000

Table of Contents

1	LIBRARY INFORMATION	3
2	PRODUCT PROFILES (PP)	4
3	VIRTUAL INDICATORS (VI)	7
4	DETAILED VIRTUAL INDICATOR (VI) DESCRIPTION	8

Library description :

This library contains a collection of heading indicators.

IMPORTANT: When NMEA data (IEC 61162-1) is used as input then make sure data is available on input RX1 or RX3 and run NMEA setup as the last step in the setup wizard.
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 Slot 1.
If no NX2 module is mounted on the XDi it acts as a CAN repeater and can receive data via XDi-net from anoteh XDi with NX1 module.

Library status symbols :

	Released & Locked
	Approved
	Pending
	Draft
	Not approved

XDi Library Information

Timestamp 15-12-2022 15:25:22

Library Specification

Library owner no. :	000003
Library owner name :	DEIF STANDARD NAV
Product type :	XDi 96
Performance class :	Navi
Library number :	1
Library name :	Heading
Library orientation :	Landscape
Library status :	Released & Locked
Library version :	2000
Last changed :	15-12-2022 15:25:12

Library default settings :

180 display rotation :	False
CAN NodeID :	40

Library notes :

15-12-2022/JOL, Ver.2000: First library version

Product profiles (PP)

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

Timestamp 15-12-2022 15:25:22

PP No.	PP Name	Description	Status	Notes
1	PP01 Front dim	**Dim from front** Default: Dim gr1. Auto Day/Night at 70%. RX/TX dim val. on XDi-net. Supported NMEA sentences: Heading: HDG,HMR,VHW, HTD,HTD,THS,HDT. MagVar; HMR, RMC, HDG Rate of turn: ROT Default: COM1 or 3, 4.8kbps 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 can be set to fixed night mode, this can be useful for some VI types, where day night shift is not needed.
2	PP02 Analog	**Analog dim** AX1 module req. Slot1 Dim potm. from Vref (t.3) to 0V (t.1), wiper to t. 2. Default: Dim gr1. Auto Day/Night at 70%, Dim val. shared on XDi-net **No NMEA input** No available slot for the NX2 module !		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 PP03 (Default Gr.1. but can be changed).
3	PP03 NMEA1	**NMEA dim Gr.1** NX2 req. for NMEA dim No NX2 = Dim via XDi-net. DIMMER GR. 1 Auto Day/Night at 70%, Dim shared on XDi-net Supported NMEA sentences: Heading: HDG,HMR,VHW, HTD,HTD,THS,HDT. MagVar; HMR, RMC, HDG Rate of turn: ROT Dimmer: DDC Default: COM1 or 3, 4.8 kbps Shares NMEA 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.
4	PP04 NMEA2	**NMEA dim Gr.2** NX2 req. for NMEA dim No NX2 = Dim via XDi-net. DIMMER GR. 2 Auto Day/Night at 70%, Dim shared on XDi-net Supported NMEA sentences: Heading: HDG,HMR,VHW, HTD,HTD,THS,HDT. MagVar; HMR, RMC, HDG Rate of turn: ROT Dimmer: DDC Default: COM1 or 3, 4.8 kbps Shares NMEA 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.

PP No.	PP Name	Description	Status	Notes
5	PP05 NMEA3	**NMEA dim Gr.3** NX2 req. for NMEA dim No NX2 = Dim via XDi-net. DIMMER GR. 3 Auto Day/Night at 70%, Dim shared on XDi-net Supported NMEA sentences: Heading: HDG,HMR,VHW, HTD,HTD,THS,HDT. MagVar; HMR, RMC, HDG Rate of turn: ROT Dimmer: DDC Default: COM1 or 3, 4.8 kbps Shares NMEA 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.
6	PP06 NMEA4	**NMEA dim 4-6** NX2 req. for NMEA dim No NX2 = Dim via XDi-net. DIMMER GR. 4 to 6 Auto Day/Night at 70%, Dim shared on XDi-net Supported NMEA sentences: Heading: HDG,HMR,VHW, HTD,HTD,THS,HDT. MagVar; HMR, RMC, HDG Rate of turn: ROT Dimmer: DDC Default: COM1 or 3, 4.8 kbps Shares NMEA 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 setup NMEA control of Dimmer gr. 4, 5 and 6 in the NMEA input menu. In the user menu you can also change the dimmer group controlling this XDi unit.
7	PP07 NMEA1C	**NMEA dim/col.1** NX2 req. for NMEA dim No NX2 = Dim via XDi-net. DIMMER GR. 1 Separate Day/Night Dim shared on XDi-net Supported NMEA sentences: Heading: HDG,HMR,VHW, HTD,HTD,THS,HDT. MagVar; HMR, RMC, HDG Rate of turn: ROT Dimmer: DDC Default: COM1 or 3, 4.8 kbps Shares NMEA 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.
8	PP08 NMEA2C	**NMEA dim/col.2** NX2 req. for NMEA dim No NX2 = Dim via XDi-net. DIMMER GR. 2 Separate Day/Night Dim shared on XDi-net Supported NMEA sentences: Heading: HDG,HMR,VHW, HTD,HTD,THS,HDT. MagVar; HMR, RMC, HDG Rate of turn: ROT Dimmer: DDC Default: COM1 or 3, 4.8 kbps Shares NMEA 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.

PP No.	PP Name	Description	Status	Notes
9	PP09 NMEA3C	**NMEA dim/col.3** NX2 req. for NMEA dim No NX2 = Dim via XDi-net. DIMMER GR. 3 Separate Day/Night Dim shared on XDi-net Supported NMEA sentences: Heading: HDG,HMR,VHW, HTD,HTD,THS,HDT. MagVar; HMR, RMC, HDG Rate of turn: ROT Dimmer: DDC Default: COM1 or 3, 4.8 kbps Shares NMEA 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 NMEA4C	**NMEA dim/col.4** NX2 req. for NMEA dim No NX2 = Dim via XDi-net. DIMMER GR. 4 to 6 Separate Day/Night Dim shared on XDi-net Supported NMEA sentences: Heading: HDG,HMR,VHW, HTD,HTD,THS,HDT. MagVar; HMR, RMC, HDG Rate of turn: ROT Dimmer: DDC Default: COM1 or 3, 4.8 kbps Shares NMEA on XDi-net		In an XDi-net system any XDi in group 4 can control the groups dimmer level and Day/Night when it uses this product profile. You can setup NMEA control of Dimmer gr. 4, 5 and 6 in the NMEA input menu. 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.

Timestamp **15-12-2022 15:25:22**

VI No.	Name	VI-setup profiles (VS)	MED Approval	Status
001	Digital 1	1		
002	Digital 2	1		

Timestamp 15-12-2022 15:25:22

VI 001	**Digital 1**
Screen 1	**Mode 1**

Description : **Heading Rep.**

Heading w/0.1 deg
(One screen)

With selectable headline
Automatic source name

Status :

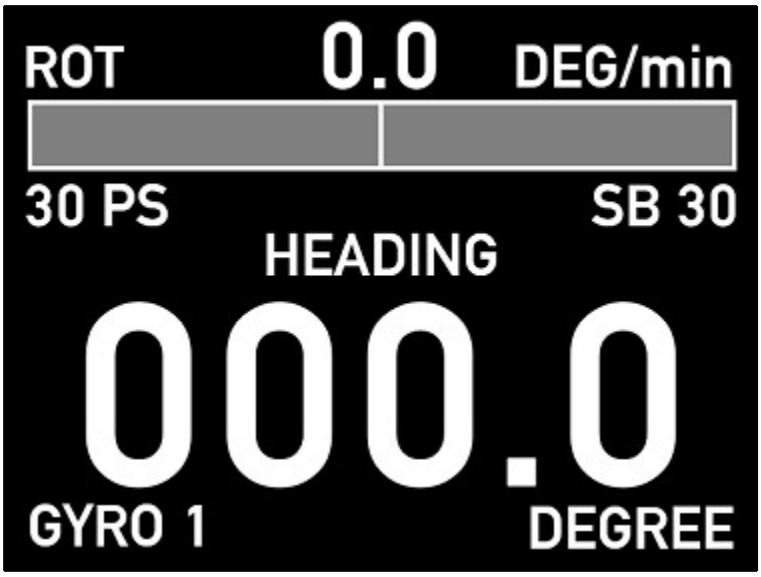
VI Notes : Indicator with one screen

VI-setup profiles (VS) for VI001

VS No.	Name	Description	Status	Notes
1	VS01 NMEA/CAN	**NMEA/XDi-net** Heading in via NMEA Requires NX2 or XDi-net via CAN1 or 2 **Fall-back function** 1. Gyro 1 (Heading True 1) 2. Gyro 2 (Heading True 2) 3. MAG. COMPASS (Hdg. Mag 1) Default settings can be changed from menu. Source priority can be changed or one source can be locked.		

VI 002	Digital 2

Screen 1 **Mode 1**



Description : **Heading w/ROT**

HDG with 0.1deg
ROT bar ±30 deg/min
ROT digital max. ±300
With selectable headline
Automatic source name

Status :

VI Notes : Indicator with one screen

VI-setup profiles (VS) for VI002

VS No.	Name	Description	Status	Notes
1	VS01 NMEA/CAN	**NMEA/XDi-net** With NX2: Data via NMEA No NX2 XDi-net (CAN) Fall-back funct. HDG: 1. Gyro 1 (Heading True 1) 2. Gyro 2 (Heading True 2) 3. MAG. COMPASS (HDG Mag 1) Fall-back function ROT: 1. ROT Instance 1 2. ROT Instance 2 Max digital ROT: +/-300 deg/min Priority can be changed or one source can be locked.		