XDi 96 Navi

Speed and Depth indicators

Library owner: DEIF STANDARD NAV

Library number: 11

Library version: 2000

Table of Contents

Library description :
This library contains a collection of standard speed and depth 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 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 via menu for COM-port 1, 2 or 3 on the NX2 module on either Slot 2 (default) or Slot 1.

Library status symbols :	
	Released & Locked
	Approved
	Pending
	Draft
	Not approved

Timestamp 27-05-2025 14:15:40

Library Specification

Library owner no. :	000003
Library owner name :	DEIF STANDARD NAV
Product type :	XDi 96
Performance class :	Navi
Library number :	11
Library name :	Speed and Depth indicators
Library orientation :	Landscape
Library status :	Released & Locked
Library version :	2000
Last changed :	27-05-2025 14:15:30

Library default settings :

180 display rotation :	False
CAN NodeID :	40

Library notes :

27-05-2025/JOL, ver. 2000: This is the first released version of this DEIF standard library, it containing 10 Product profiles and 6 virtual indicators.

Product profiles (PP)

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

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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: STW: VHW, VBW SOG: VTG, VBW, RMC Depth: DBT, DPT Default: COM1 or 3 at 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: STW: VHW, VBW SOG: VTG, VBW, RMC Depth: DBT, DPT Dimmer: DDC Default: COM1 or 3 at 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: STW: VHW, VBW SOG: VTG, VBW, RMC Depth: DBT, DPT Dimmer: DDC Default: COM1 or 3 at 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: STW: VHW, VBW SOG: VTG, VBW, RMC Depth: DBT, DPT Dimmer: DDC Default: COM1 or 3 at 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: STW: VHW, VBW SOG: VTG, VBW, RMC Depth: DBT, DPT Dimmer: DDC Default: COM1 or 3 at 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/col1** 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: STW: VHW, VBW SOG: VTG, VBW, RMC Depth: DBT, DPT Dimmer: DDC Default: COM1 or 3 at 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/col2** 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: STW: VHW, VBW SOG: VTG, VBW, RMC Depth: DBT, DPT Dimmer: DDC Default: COM1 or 3 at 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/col3** 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: STW: VHW, VBW SOG: VTG, VBW, RMC Depth: DBT, DPT Dimmer: DDC Default: COM1 or 3 at 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/col4** 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: STW: VHW, VBW SOG: VTG, VBW, RMC Depth: DBT, DPT Dimmer: DDC Default: COM1 or 3 at 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.

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VI No.	Name	VI-setup profiles (VS)	Approvals	Status
001	Speed 1sc	1		
002	Speed 2sc	1		
003	Depth 4sc	1		
004	STW, SOG	1		
005	Speed, Depth	1		
006	Spd, Dpt 4sc	1		

 Approvals only apply for XDi 192.

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VI 001	**Speed 1sc**
Screen 1	**Screen 1**

Description : **SPEED**

1 screen
Large digital speed indicator

With selectable headline
Speed through water or speed over ground

Status :

VI Notes :

VI-setup profiles (VS) for VI001

VS No.	Name	Description	Status	Notes
1	VS01 NMEA	**NMEA or XDi-net** Speed through water (STW) or speed over ground (SOG) received via NMEA or XDi-net. Fall-back function is default active. If STW is available it will be presented. From XDi menu the priority between STW and SOG can be changed or one source can be locked.		

VI 002	**Speed 2sc**
Screen 1	**Screen 1**

Screen 2 **Screen 2**

Description : **SPEED**

2 Screens
Large digital speed indicator

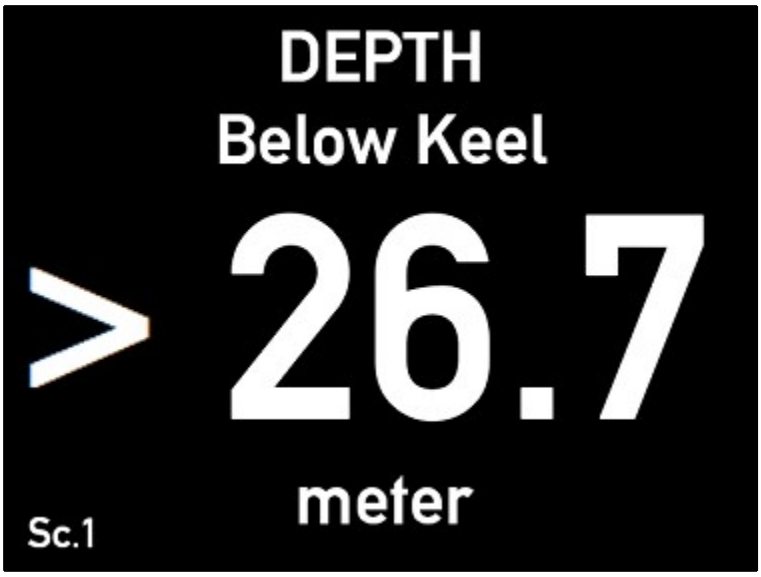
With selectable headline
Sc.1: Speed through water
Sc.2: Speed over ground

Status :

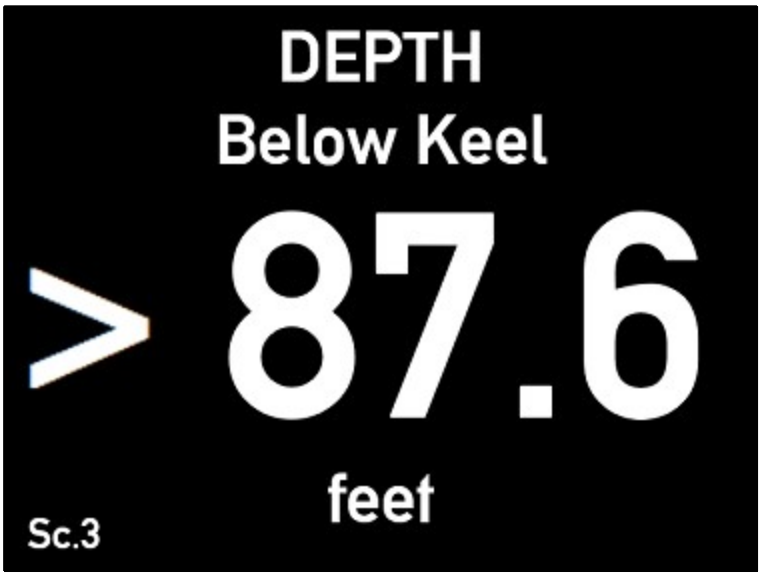
VI Notes :

VI-setup profiles (VS) for VI002

VS No.	Name	Description	Status	Notes
1	VS01 NMEA	**NMEA or XDi-net** Speed through water (STW) or speed over ground (SOG) received via NMEA or XDi-net.		

VI 003	Depth 4sc
Screen 1	Screen 1 
Screen 2	Screen 2 

Screen 3 **Screen 3**



Screen 4 **Screen 4**

Description : **DEPTH**

4 screens
Large digital depth
Depth b. keel or transd.

With selectable headline
Sc.1: 99.9m, Sc.2: 3000m
Sc.3: 99.7ft, Sc.4: 9999ft

Status :

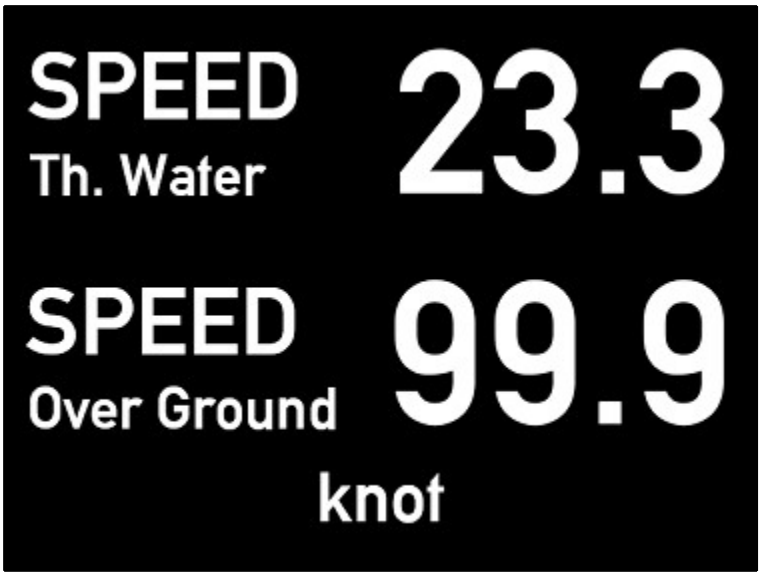
VI Notes :

VI-setup profiles (VS) for VI003

VS No.	Name	Description	Status	Notes
1	VS01 NMEA	**NMEA or XDi-net** Depth below transd. DBT or depth below keel DBK via NMEA or XDi-net. Fall-back function is default active. If DBK is available it will be presented. From XDi menu the priority between DTR and DTK can be changed or one source can be locked.		

VI 004	STW, SOG

Screen 1 **Screen 1**



Description : **SPEED**

1 screen
Digital indicator w/
separate STW and SOG

With selectable headlines
Speed range -99.9 to 99.9 kn

Status :

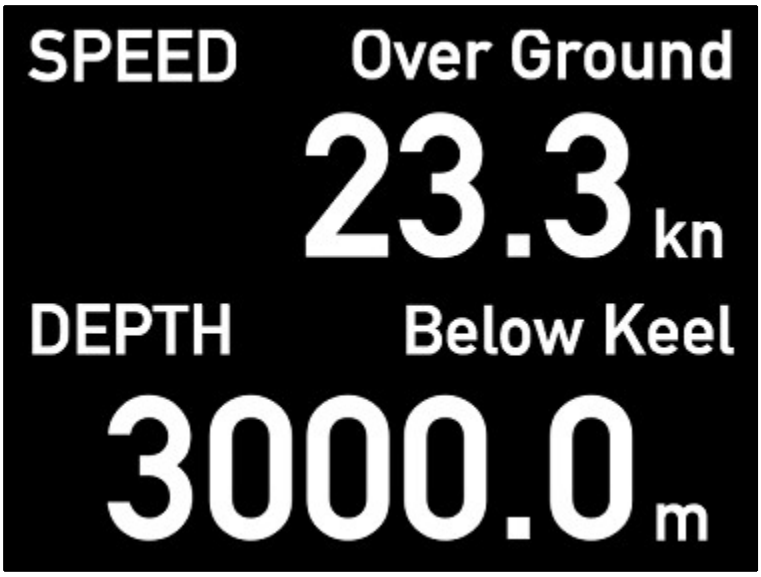
VI Notes :

VI-setup profiles (VS) for VI004

VS No.	Name	Description	Status	Notes
1	VS01 NMEA	**NMEA or XDi-net** Speed: STW and SOG received via NMEA or XDi-net.		

VI 005	Speed, Depth

Screen 1 **Screen 1**



Description : **SPEED, DEPTH**

1 screen
STW or SOG
DPT below keel or transd.

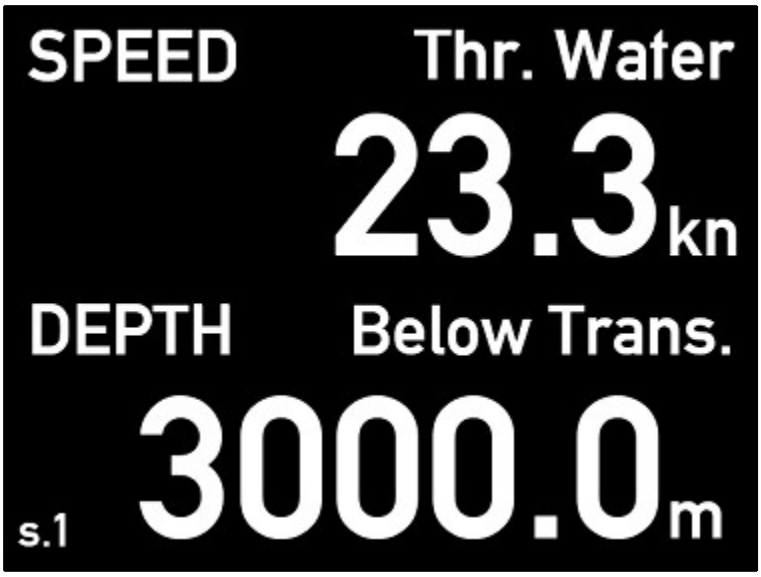
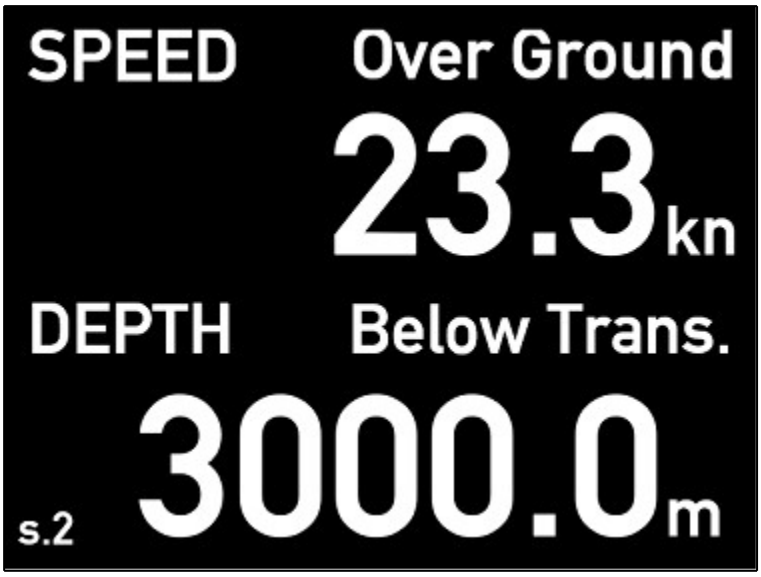
Selectable headlines and
selectable depth unit
Speed -99.9 to 99.9 kn
Max. DPT 3000.0m(9842 ft)

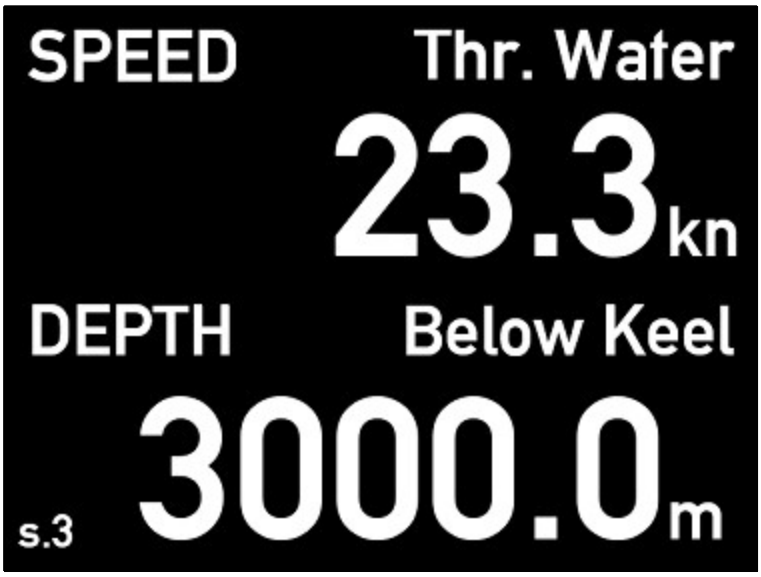
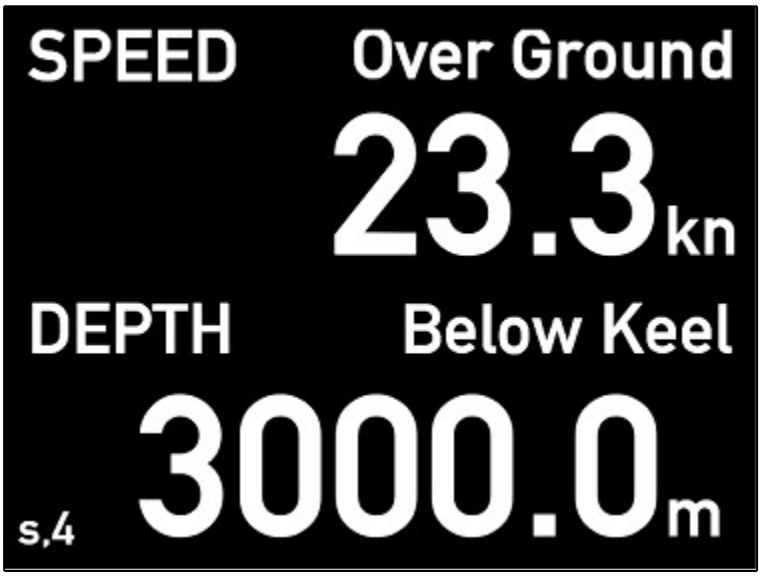
Status :

VI Notes :

VI-setup profiles (VS) for VI005

VS No.	Name	Description	Status	Notes
1	VS01 NMEA	**NMEA or XDi-net** Speed: STW or SOG Depth: Depth b. keel or Depth b. trans. via NMEA or XDi-net. Fall-back function is default active. If STW and DBK is available it will be presented. From XDi menu priority between STW/SOG and DBK/DBT can be changed or locked.		

VI 006	Spd, Dpt 4sc
Screen 1	Screen 1 
Screen 2	Screen 2 

Screen 3	**Screen 3** 
Screen 4	**Screen 4** 
Description :	**SPEED, DEPT** **4 screens** DPT below keel or transd. Selectable headlines and selectable depth unit Speed -99.9 to 99.9 kn Max. DPT 3000.0m(9842.0ft)
Status :	
VI Notes :	If a data type is not available, the screen can be removed from the toggle list. E.g. if there is no “Depth below keel” available the mode toggle sequence is set to S1-S2-S1-S2. Note: The data types that are missing must most likely be disabled during installation to avoid data lost warning. EXAMPLE: if depth below keel is missing in the NMEA sentence, then this data type must be set OFF. To do this enter installation menu, select "Edit virtual indicator" then "Indicators" and highlight "Depth_BK", then highlight "Visible" and select "Off", press arrow back several times (No synch).

VI-setup profiles (VS) for VI006

VS No.	Name	Description	Status	Notes
1	VS01 NMEA	**NMEA or XDi-net** NX2 module req. for NMEA If no NX2 data via XDi-net. Speed: STW and SOG Depth: Depth b. keel and Depth b. trans. Selecable headline Selectable dept unit