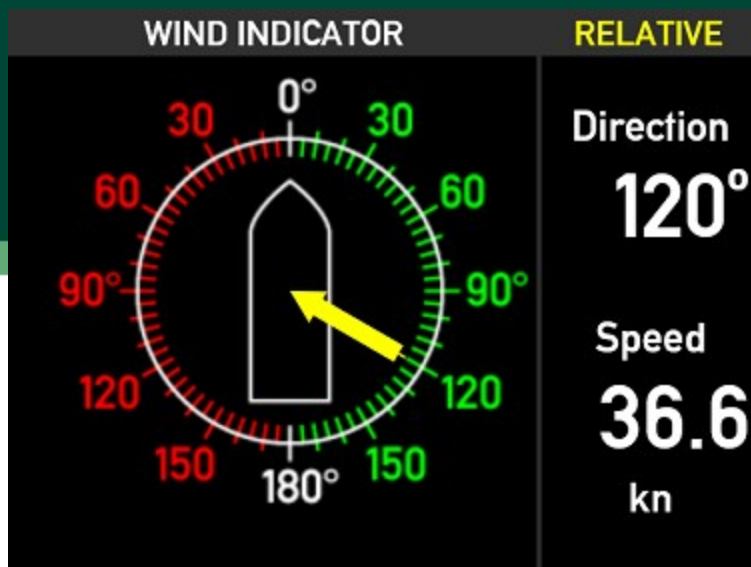




Improve
Tomorrow

XDi 96 Navi

Standard wind indicators



Library owner: DEIF STANDARD WIND

Library number: 1

Library version: 2006

Table of Contents



1	LIBRARY INFORMATION	3
2	PRODUCT PROFILES (PP)	4
3	VIRTUAL INDICATORS (VI)	8
4	DETAILED VIRTUAL INDICATOR (VI) DESCRIPTION	9

Library description :

This library contains a selection of standard wind indicators for relative, true and geographic true wind.
Relevant indicators are available for both forward bridge and aft bridge applications.
True and geographic true wind speed and direction can be calculated by the XDi, just select a VS profile with a wind calculator.
VS input profiles for NMEA data (IEC 61162-1) or XDi-net data is available for each virtual indicator.

AUTOMATED or NO NMEA SETUP

If you select PP 6 or PP 7, and connect the signals according to the product profiles requirement (see product profile description & notes), no further NMEA settings are needed. Just finish the wizards after selecting the VS.

If the signals are not as defined in PP 6 or 7, use the NMEA auto scan function when finalizing the XDi setup wizard, to detect available sources and make a fast automated setup of the IEC61162-1 NMEA interface.

Make sure that all devices sourcing NMEA data to XDi are connected and active.

In case of multiple data sources, a manual source selection from the list of available input source will be needed.

WIND SENSOR OFFSET AND FILTERS

The wind direction can be offset from the installation menu. Enter the NMEA manual setup menu. In the NMEA config list open Wind direction R1 and insert the offset value in degrees x10 (4.0 deg = 40).

In the same menu it is also possible to change the average filtering of wind speed and direction received as NMEA data.

Library status symbols :



Released & Locked



Approved



Pending



Draft



Not approved

Timestamp 14-10-2026 14.15.19

Library Specification

Library owner no. : 000002
Library owner name : DEIF STANDARD WIND
Product type : XDi 96
Performance class : Navi
Library number : 1
Library name : Standard wind indicators
Library orientation : Landscape
Library status : Released & Locked
Library version : 2006

Last changed : 14-10-2026 14.15.00

Library default settings :

180 display rotation : False
CAN NodeID : 40

Library notes :

24-10-2026 / JHU, ver 2006:

- Dimmer input in PP 3 corrected to NMEA
- Input in PP 5 for DDC corrected to only gr. 1 auto selected
- 2 new PP (6 & 7) for automatic setup of NMEA in simple systems (multi & single source)

07-04-2020 / JOL, ver.2008: This update support the new display colour adjust function located in the USER NEMU. This function makes it possible to adjust XDi displays to look the same.

22-03-2018/JOL, ver.2004: Released

Product profiles (PP)



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

Timestamp 14-10-2026 14.15.19

PP No.	PP Name	Description	Status	Notes
1	PP01 Front dim	Front gr. dim Dim via front buttons Default: Dimmer group 1. Auto day/night at 70% TX and RX dim on XDi-net Supported NMEA sent.: Dim(G1-6): DDC (not D/N) Wind: MWV, MWD, Spd: VHW, VBW, VTG, RMC, Hdg: HMR, THS, HTD, VHW, HDT, HDG. MagVar; HMR, RMC, HDG. Shares NMEA 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.
2	PP02 XDi-net	XDi-net Dim Dimmer via XDi-net Default: Dimmer group 1. Auto day/night at 70% Supported NMEA sent.: No NMEA dimmer support Wind: MWV, MWD, Spd: VHW, VBW, VTG, RMC, Hdg: HMR, THS, HTD, VHW, HDT, HDG. MagVar; HMR, RMC, HDG. Shares NMEA on XDi-net		This profile is used in a XDi-net system where the dimmer of this XDi is controlled by an XDi with AX1 analogue dimmer control shared on XDi-net. Or in other situations where you want dimmer to be controlled via XDi-net.
3	PP03 Front dim	Local dimmer Dim via front buttons Default: Dimmer gr: Local Auto day/night at 70% Supported NMEA sent.: Dim (Local): DDC (no D/N) Wind: MWV, MWD, Spd: VHW, VBW, VTG, RMC, Hdg: HMR, THS, HTD, VHW, HDT, HDG. MagVar; HMR, RMC, HDG. Shares NMEA on XDi-net		This profile is used where only the XDi itself is controlled by the front buttons. You can control this unit via an NMEA input. The dimmer setting is not shared on XDi-net.
4	PP04 AnalogDim	Analogue dim Required: AX1 on ext. slot Data via XDi-net Dim gr. 1 - Auto Day/Night Dimmer potmeter (+ t.3, - t.1, wiper t.2) Dim shared on XDi-net Can be reconf. to voltage in Receive all relevant input data via XDi-net from another XDi-N connected to NMEA.		Analogue input for groupe dimmer control and automatic DAY/Night shift. This profile controls dimmer gr.1 in a XDi-net system. Only one XDi with AX1 dimmer for each dimmer groupe.

PP No.	PP Name	Description	Status	Notes
5	PP05 NMEA	NMEA dimmer Separate Dimmer and Day/Night shift via NMEA and/or XDi-net. Default: Dimmer gr.1 Supported NMEA sent.: Dim+D/N shift (g1-6): DDC Wind: MWV, MWD, Spd: VHW, VBW, VTG, RMC, Hdg: HMR, THS, HTD, VHW, HDT, HDG. MagVar; HMR, RMC, HDG. Shares NMEA on XDi-net		NMEA DDC can control dimmer and colour in group 1 to 6 and share it on XDi-net. If the XDi is not controlled by its NMEA input it will receive dimmer value and colour via XDi-net. Use this profile to make XDi-net system with NMEA dimmer and Day/Night control.

PP No.	PP Name	Description	Status	Notes
6	PP06 Front dimmer	Auto NMEA config., multiple sources Plug & Play if the defined NMEA spec are met, no scanning is needed. Dimmer from front buttons or NMEA Default: Dimmer group 1. Auto day/night at 70% Send and receive dimmer on XDi-net NMEA connection: NX2 in Slot 1 Supported NMEA sentences: Wind:MWV, Talk.ID: WI port 2 (termin.10&11) Speed: VBW, Talk.ID: IN port 3 (termin. 1&2) Head.T: HDT, Talk.ID: IN port 3 (termin. 1&2) Head.M: HDG, Talk.ID: IN port 3 (termin. 1&2) Dimmer gr.1 (lev./col): DDC, Talk.ID: IN port 3 (termin. 1&2) Shares selected NMEA data on XDi-net		Dimmer: In an XDi-net system any XDi in a group can control the groups dimmer level when it uses this product profile. This product profile can be used for for simple wind measurement system, where the NMEA sources are connected as specified. Speed input is only needed if True or Geographical indications are used. Heading input is only needed if Geographical indications are used. Use this profile if the wind sensor is connected directly to the XDi. all other NMEA data is coming from the same source (optional, if no true or geographical data is presented, only the wind sensor data is needed.. If the requirements are met, select "Finish wizard" instead of "NMEA setup" after selecting the VS. It is not necessary to make NMEA configuration. DDC support for both Dimmer Level and colour. If Display Dimming Preset is set to "O" (back light OFF), the message is ignored. The system will be "Plug & Play": just connect the sensor to the XDi after executing the installation wizard. Note: It is always possible to run the NMEA setup if needed.

PP No.	PP Name	Description	Status	Notes
7	PP07 Front dimmer	Auto NMEA config., single source Plug & Play if the defined NMEA spec are met, no scanning is needed. Dimmer from front buttons or NMEA Default: Dimmer group 1. Auto day/night at 70% Send and receive dimmer on XDi-net NMEA connection: NX2 in Slot 1, connect to port 3 (terminals 1 & 2) Supported NMEA sentences: Wind: MWV, Talk.ID: WI Speed: VBW, Talk.ID: IN Head.T: HDT, Talk.ID: IN Head.M: HDG, Talk.ID: IN Dimmer gr.1 (lev./col): DDC, Talk.ID: IN Shares selected NMEA data on XDi-net		Dimmer: In an XDi-net system any XDi in a group can control the groups dimmer level when it uses this product profile. This product profile can be used for for simple wind measurement system, where the NMEA sources are connected as specified. Speed input is only needed if True or Geographical indications are used. Heading input is only needed if Geographical indications are used. Use this profile if the wind sensor is connected directly to the XDi. all other NMEA data is coming from the same source (optional, if no true or geographical data is presented, only the wind sensor data is needed.. If the requirements are met, select "Finish wizard" instead of "NMEA setup" after selecting the VS. It is not necessary to make NMEA configuration. DDC support for both Dimmer Level and colour. If Display Dimming Preset is set to "O" (back light OFF), the message is ignored. The system will be "Plug & Play": just connect the sensor to the XDi after executing the installation wizard. Note: It is always possible to run the NMEA setup if needed.

Virtual Indicators (VI)



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

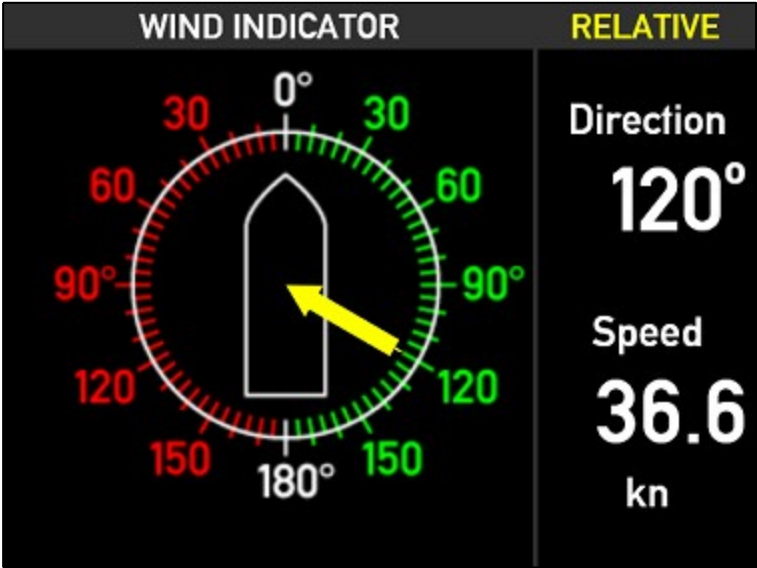
Each VI has at least one VI-setup profile (VS) that defines the input types and default parameter settings.

Timestamp 14-10-2026 14.15.19

VI No.	Name	VI-setup profiles (VS)	Approvals	Status
001	Wind Rel	2	 	
002	Wind Rel	2	 	
003	Wind RT	3	 	
004	Wind RT	3	 	
005	Wind RTG	3	 	
006	Wind RTG	3	 	

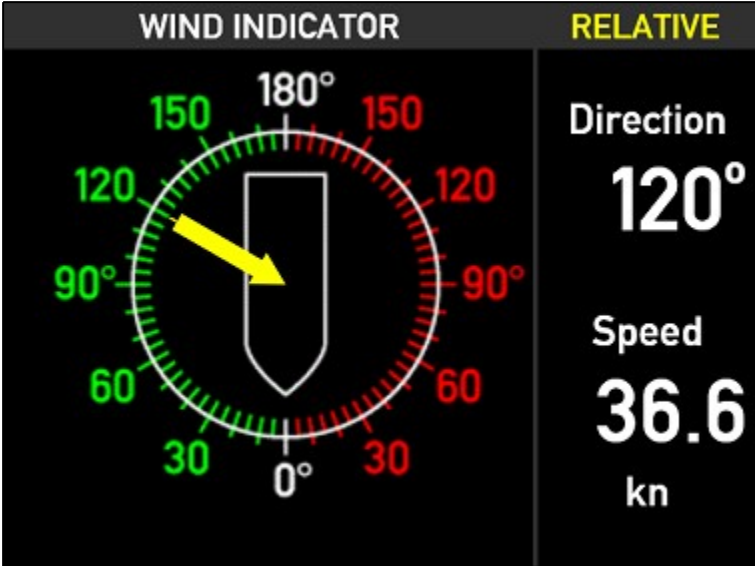
 Approvals only apply for XDi 192.

Timestamp 14-10-2026 14.15.19

VI 001	Wind Rel
Screen 1	S1 Rel. wind 
Description :	Rel. wind FWD Relative wind indicator. Wind direct. and speed Selectable headline and speed unit Status :  VI Notes : Max speed value 199.9 m/s, Kn, MPH or Km/h and 0 to 12 Bf (Beaufort) Unit can be shifted using the quick menu using the right push-button, select another unit profile or edit the profile to match your needs.

VI-setup profiles (VS) for VI001

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	XDi repeater Use this when all input data are available on XDi-net sourced from another XDi-N with NX2 NMEA interface. With NX1 on ext. slot send XDi-net data to NMEA out: MWV1: Relative wind Activate NMEA out via menu!		
2	VS02 NMEA 1	NMEA in/out Requires NX2 on ext. slot. Default NMEA connections: Wind sensor: S1.2 RX/TX2 Run NMEA input setup ! Optional NMEA out S1.1: MWV 1: Relative wind Activate from menu.		

VI 002	Wind Rel
Screen 1	S1 Rel. wind
	

Description :	Rel. wind AFT Relative wind indicator for aft bridge location, Wind direct. and speed Selectable headline and speed unit
Status :	
VI Notes :	Max speed value 199.9 m/s, Kn, MPH or Km/h and 0 to 12 Bf (Beaufort) Unit can be shifted using the quick menu using the right push-button, select another unit profile or edit the profile to match your needs.

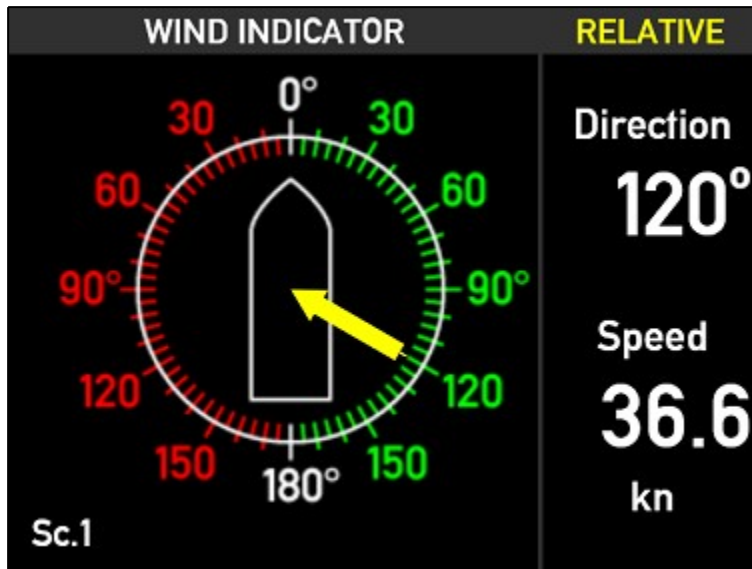
VI-setup profiles (VS) for VI002				
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	XDi repeater Use this when all input data are available on XDi-net sourced from another XDi-N with NX2 NMEA interface. With NX1 on ext. slot send XDi-net data to NMEA out: MWV1: Relative wind Activate NMEA out via menu!		

VI-setup profiles (VS) for VI002

VS No.	Name	Description	Status	Notes
2	VS02 NMEA 1	NMEA in/out Requires NX2 on ext. slot. Default NMEA connections: Wind sensor: S1.2 RX/TX2 Run NMEA input setup ! Optional NMEA out S1.1: MWV 1: Relative wind Activate from menu.		

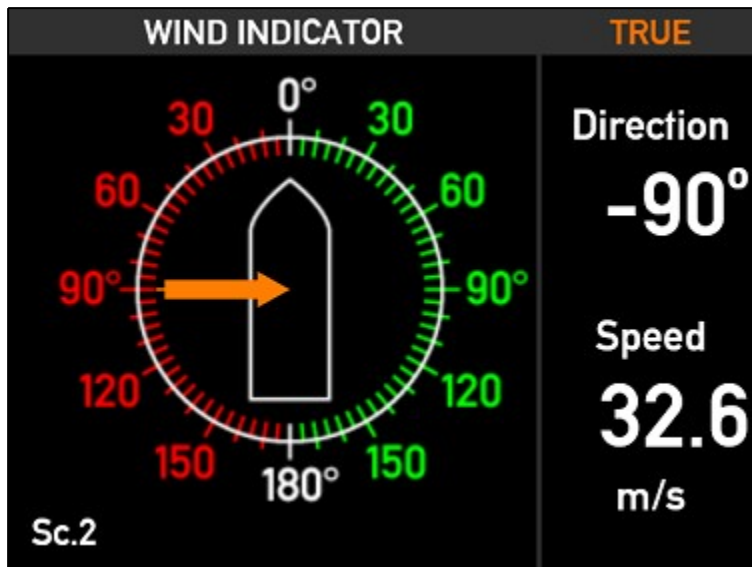
Screen 1

S1 Rel. wind



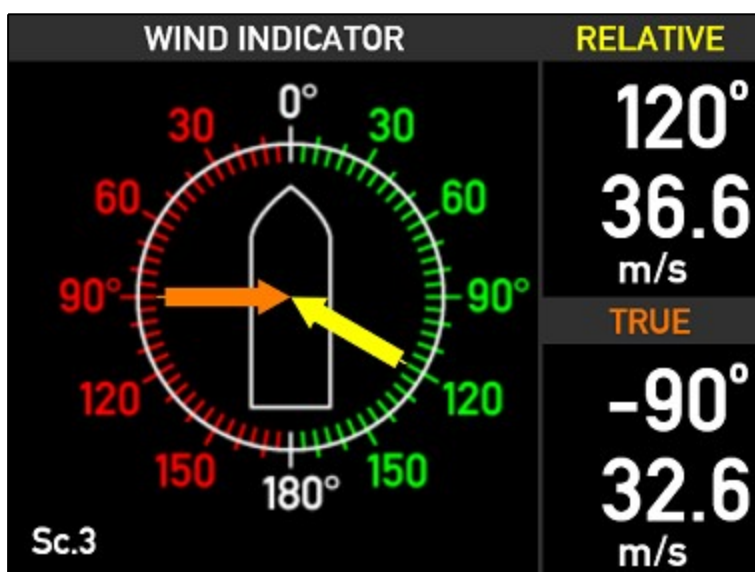
Screen 2

S2 True wind



Screen 3

S3 Rel+True wind



Description : Wind FWD 3 sc

3 Screens: Relative and
True wind r. ships heading
Wind direct. and speed
Selectable headline and speed unit

Status :



VI Notes :

This virtual indicator has 3 screens to toggle between using the left push-button on front.
Unit can be shifted using the quick menu using the right push-button,
select another unit profile or edit the profile to match your needs.
Max speed value 199.9 m/s, Kn, MPH or Km/h
and 0 to 12 Bf (Beaufort)

VI-setup profiles (VS) for VI003

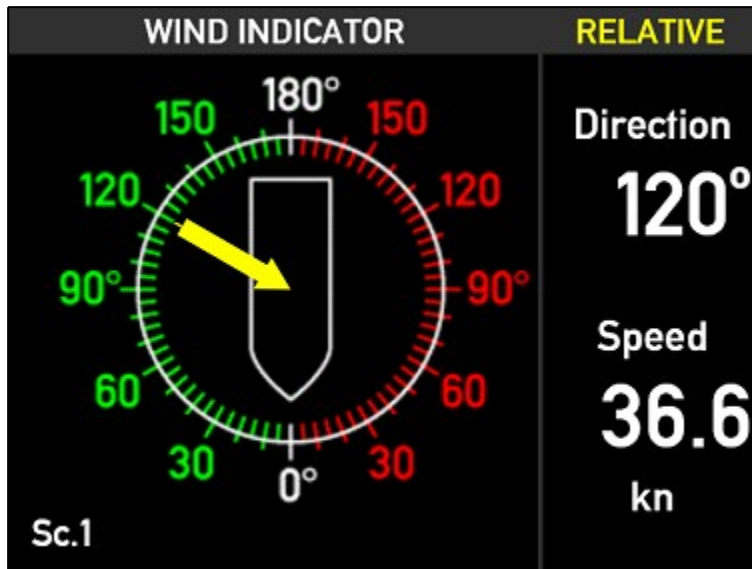
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	XDi repeater Use this when all input data are available on XDi-net sourced from another XDi-N with NX2 NMEA interface. With NX1 on ext. slot send XDi-net data to NMEA out: MWV1: Relative wind and True wind rel. ship Activate NMEA out via menu!		Both Relative and true wind data will be shared via XDi-net from another unit either receiving or calculation True wind data.

VI-setup profiles (VS) for VI003

VS No.	Name	Description	Status	Notes
2	VS02 NMEA 1	NMEA in/out Requires NX2 on ext. slot. Default NMEA connections: Wind sensor: S1.2 RX/TX2 True wind to input S1.1 or S1.3 Run NMEA input setup ! Optional NMEA out S1.1: MWV 1: Relative wind and True wind Activate from menu.		
3	VS03 NMEA 2	Calculate Requires NX2 on ext. slot. Default NMEA connection: Wind sensor: S1.2 RX/TX2 Speed at: S1.1 or S1.3, used to calculate TrueWind. Run NMEA input setup! Optional NMEA output 1.1: MWV1 : Relative wind and True wind Activate NMEA out from menu		

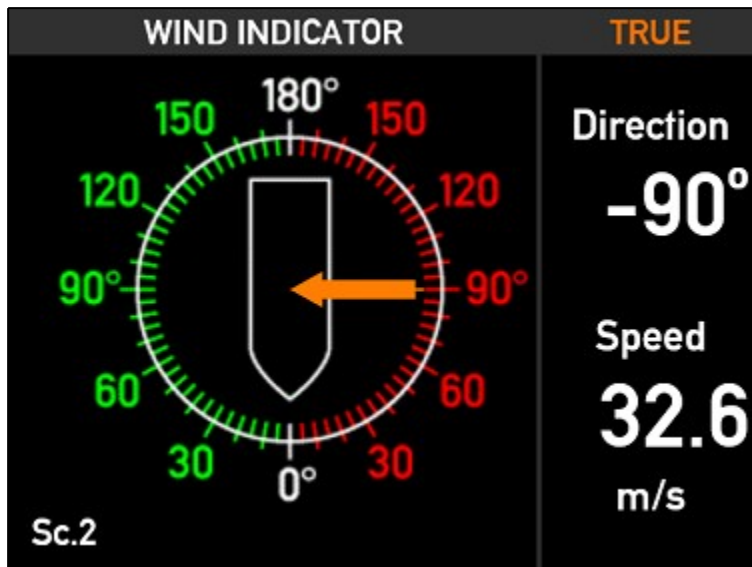
Screen 1

S1 Rel. wind



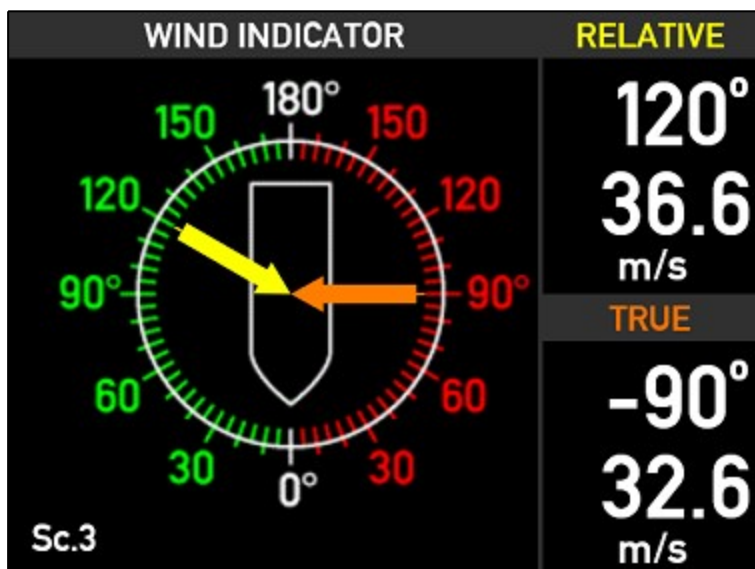
Screen 2

S2 True wind



Screen 3

S3 Rel+True wind

**Description :** Wind AFT 3 sc

3 Screens: Relative and
True wind r. ships heading
Wind direct. and speed
Selectable headline and speed unit

Status :**VI Notes :**

This virtual indicator has 3 screens to toggle between using the left push-button on front.
Unit can be shifted using the quick menu using the right push-button,
select another unit profile or edit the profile to match your needs.
Max speed value 199.9 m/s, Kn, MPH or Km/h
and 0 to 12 Bf (Beaufort)

VI-setup profiles (VS) for VI004

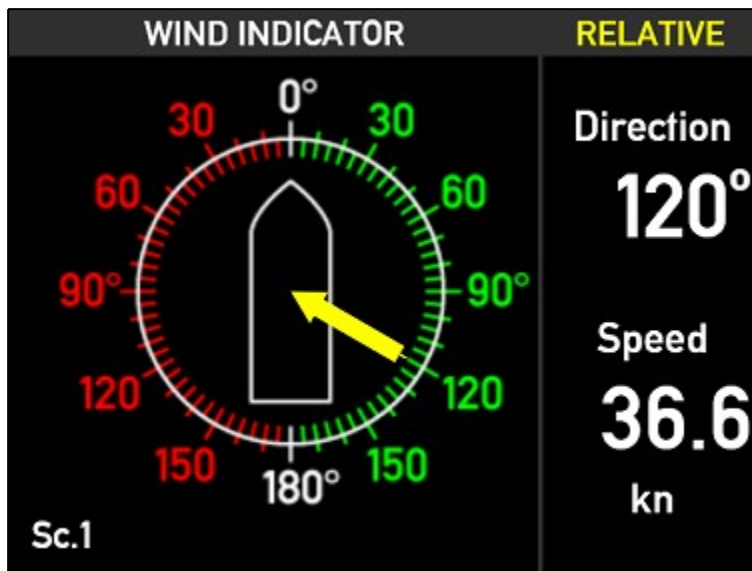
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	XDi repeater Use this when all input data are available on XDi-net sourced from another XDi-N with NX2 NMEA interface. With NX1 on ext. slot send XDi-net data to NMEA out: MWV1: Relative wind and True wind rel. ship Activate NMEA out via menu!		Both Relative and true wind data will be shared via XDi-net from another unit either receiving or calculation True wind data.

VI-setup profiles (VS) for VI004

VS No.	Name	Description	Status	Notes
2	VS02 NMEA 1	NMEA in/out Requires NX2 on ext. slot. Default NMEA connections: Wind sensor: S1.2 RX/TX2 True wind to input S1.1 or S1.3 Run NMEA input setup ! Optional NMEA out S1.1: MWV 1: Relative wind and True wind Activate from menu.		
3	VS03 NMEA 2	Calculate Requires NX2 on ext. slot. Default NMEA connection: Wind sensor: S1.2 RX/TX2 Speed at: S1.1 or S1.3, used to calculate TrueWind. Run NMEA input setup! Optional NMEA output 1.1: MWV1 : Relative wind and True wind Activate NMEA out from menu		

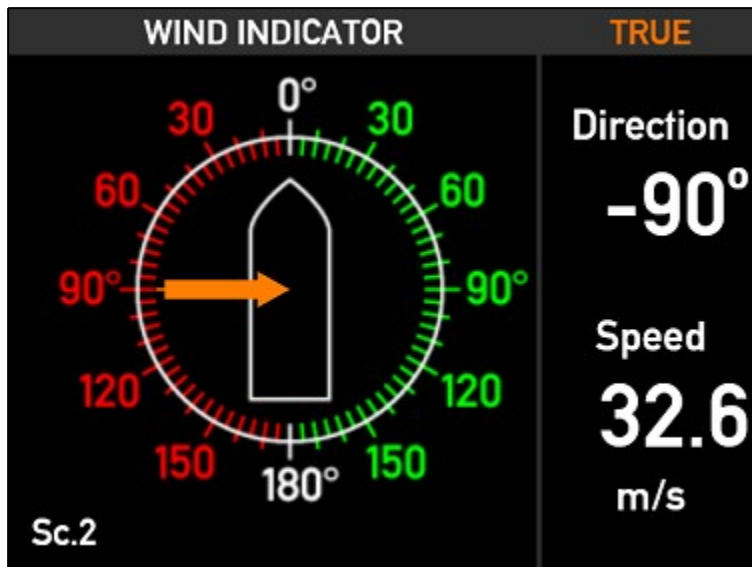
Screen 1

S1 Rel. wind



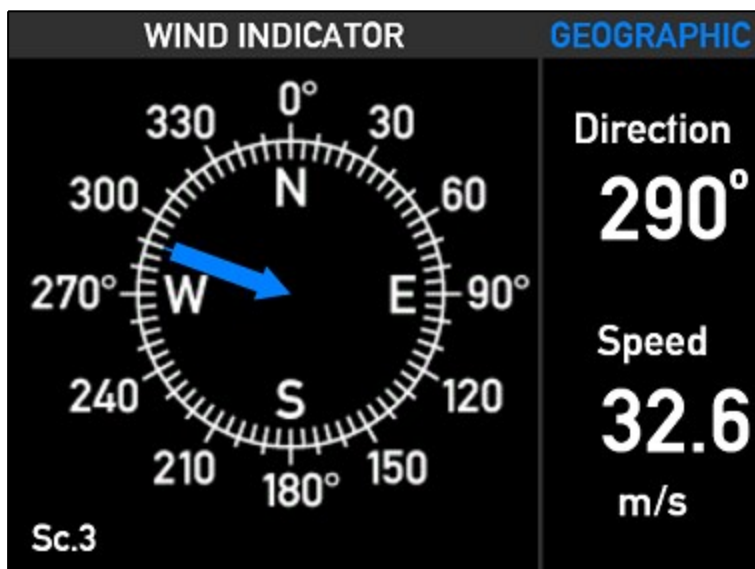
Screen 2

S2 True wind



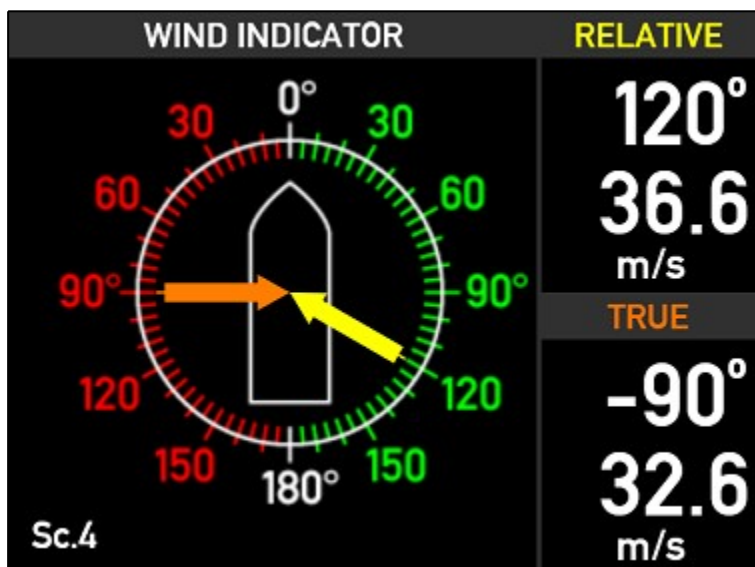
Screen 3

S3 Geo wind



Screen 4

S4 Rel+True wind

**Description :** Wind FWD 4 sc

4 Screens: Relative,
True and Geog. true wind
Wind direct. and speed
Selectable headline and speed unit

Status :**VI Notes :**

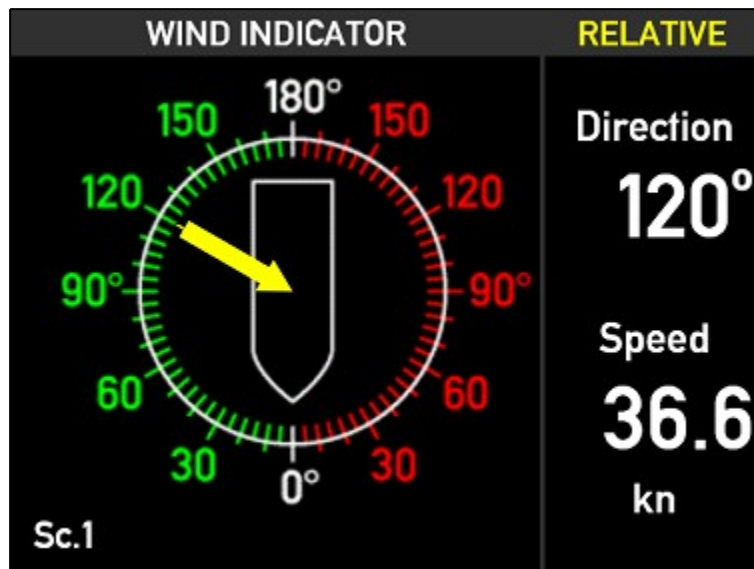
This virtual indicator has 4 screens to toggle between using the left push-button on front. Unit can be shifted using the quick menu using the right push-button, select another unit profile or edit the profile to match your needs. Max speed value 199.9 m/s, Kn, MPH or Km/h and 0 to 12 Bf (Beaufort)

VI-setup profiles (VS) for VI005

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	XDi repeater Use this when all input data are available on XDi-net sourced from another XDi-N with NX2 NMEA interface. With NX1 on ext. slot send XDi-net data to NMEA out: MWV1: Relative wind and True wind rel. ship MWD1: Geog. true wind Activate NMEA out via menu!		Both Relative and true wind data will be shared via XDi-net from another unit either receiving or calculation True wind data.
2	VS02 NMEA 1	NMEA in/out Requires NX2 on ext. slot. Default NMEA connections: Wind sensor: S1.2 RX/TX2 True / Geo. true wind to input S1.1 or S1.3 Run NMEA input setup ! Optional NMEA out S1.1: MWV 1: Relative wind and True wind MVD1: Geo. true wind Activate from menu.		
3	VS03 NMEA 2	Calculate Requires NX2 on ext. slot. Default NMEA connection: Wind sensor: S1.2 RX/TX2 Spd and Hdg at: S1.1 or S1.3, used to calculate TrueWind. Run NMEA input setup! Optional NMEA output 1.1: MWV1 : Relative wind and True wind MWD1: Geo wind (dir. T) Activate NMEA out from menu		

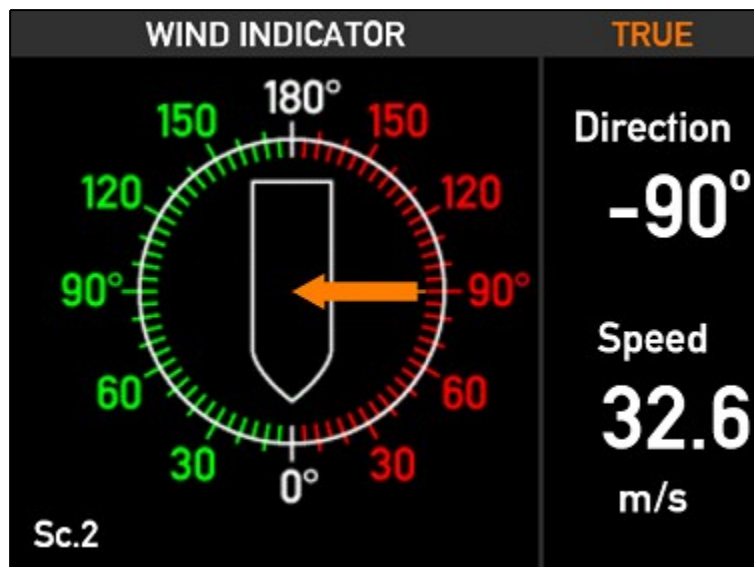
Screen 1

S1 Rel. wind



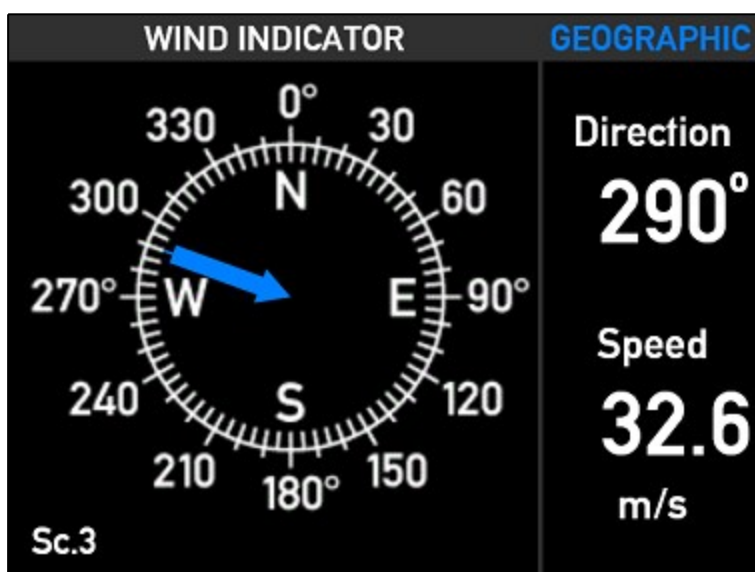
Screen 2

S2 True wind



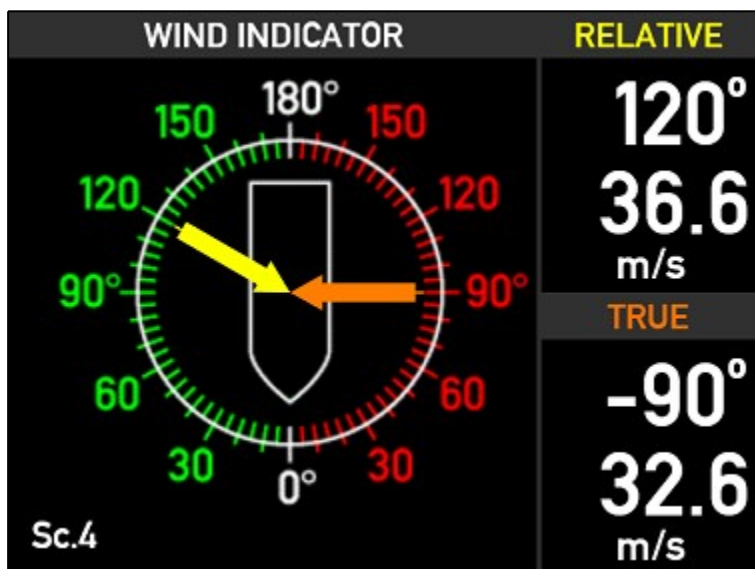
Screen 3

S3 Geo wind



Screen 4

S4 Rel+True wind

**Description :** Wind AFT 4 sc

4 Screens: Relative,
True and Geog. true wind
Wind direct. and speed
Selectable headline and speed unit

Status :**VI Notes :**

This virtual indicator has 4 screens to toggle between using the left push-button on front.
Unit can be shifted using the quick menu using the right push-button,
select another unit profile or edit the profile to match your needs.
Max speed value 199.9 m/s, Kn, MPH or Km/h
and 0 to 12 Bf (Beaufort)

VI-setup profiles (VS) for VI006

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	XDi repeater Use this when all input data are available on XDi-net sourced from another XDi-N with NX2 NMEA interface. With NX1 on ext. slot send XDi-net data to NMEA out: MWV1: Relative wind and True wind rel. ship MWD1: Geog. true wind Activate NMEA out via menu!		Both Relative and true wind data will be shared via XDi-net from another unit either receiving or calculation True wind data.
2	VS02 NMEA 1	NMEA in/out Requires NX2 on ext. slot. Default NMEA connections: Wind sensor: S1.2 RX/TX2 True / Geo. true wind to input S1.1 or S1.3 Run NMEA input setup ! Optional NMEA out S1.1: MWV 1: Relative wind and True wind MVD1: Geo. true wind Activate from menu.		
3	VS03 NMEA 2	Calculate Requires NX2 on ext. slot. Default NMEA connection: Wind sensor: S1.2 RX/TX2 Spd and Hdg at: S1.1 or S1.3, used to calculate TrueWind. Run NMEA input setup! Optional NMEA output 1.1: MWV1 : Relative wind and True wind MWD1: Geo wind (dir. T) Activate NMEA out from menu		