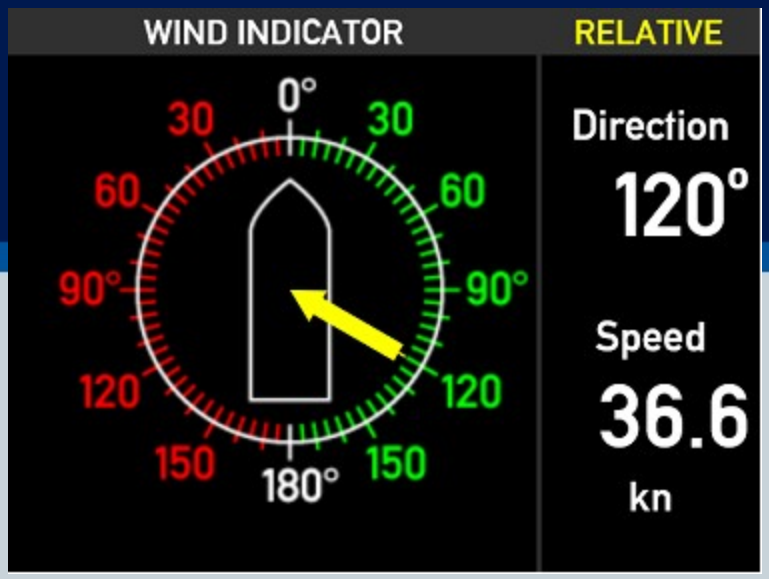
XDi 96 Navi

Standard wind indicators



Library owner: DEIF STANDARD WIND

Library number: 1

Library version: 2005

Table of Contents

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 NMEA SETUP
When finalizing the XDi setup wizard, use the NMEA auto scan function 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 07-04-2020 14:35:19

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 :	2005
Last changed :	07-04-2020 14:35:10

Library default settings :

180 display rotation :	False
CAN NodeID :	40

Library notes :

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.

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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.

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)	MED Approval	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		

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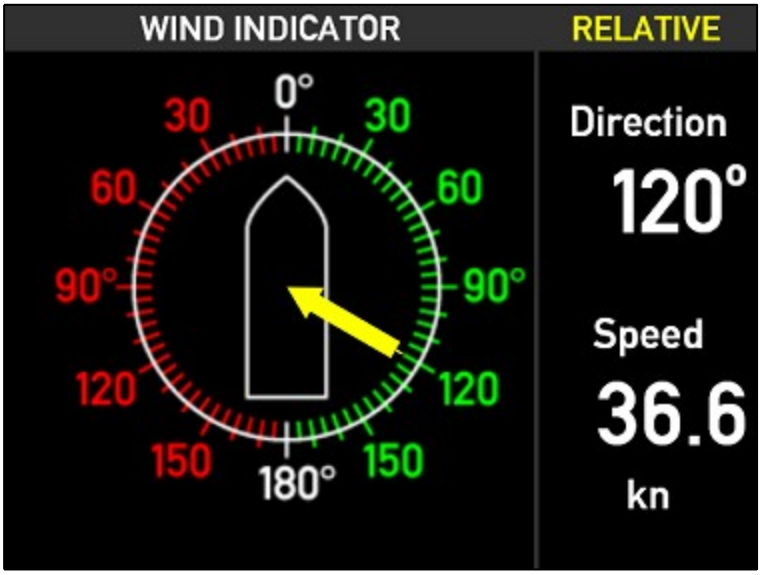
VI 001	**Wind Rel**
Screen 1	**S1 Rel. wind**



Description : **Rel. wind FWD**

Relative wind indicator.

Wind direct. and speed
Selectable headline and speed unit

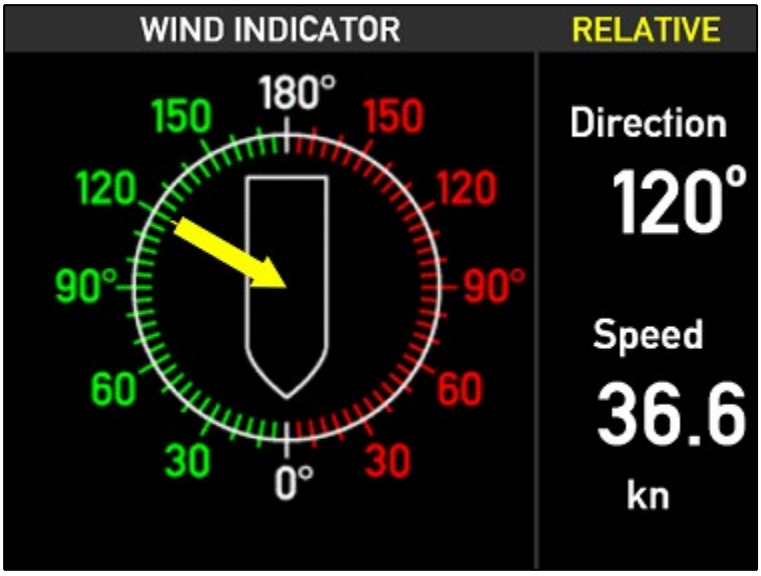
Status :

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.

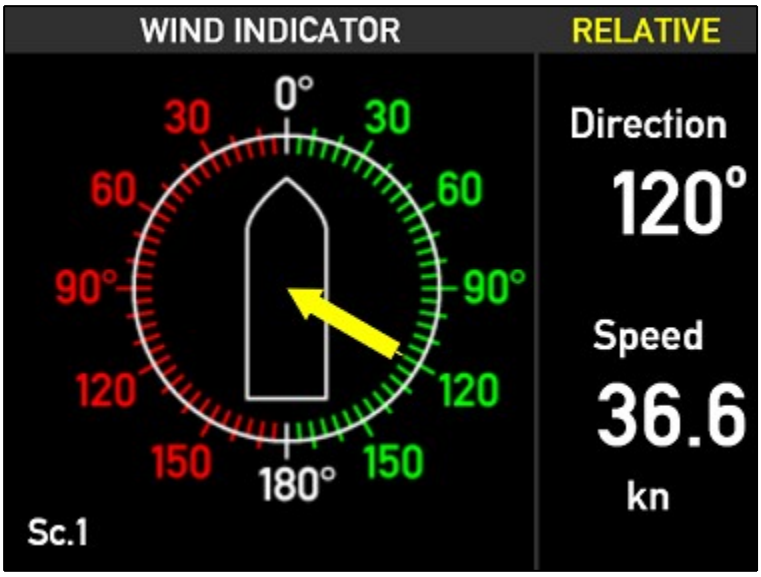
VI-setup profiles (VS) for VI002

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!		

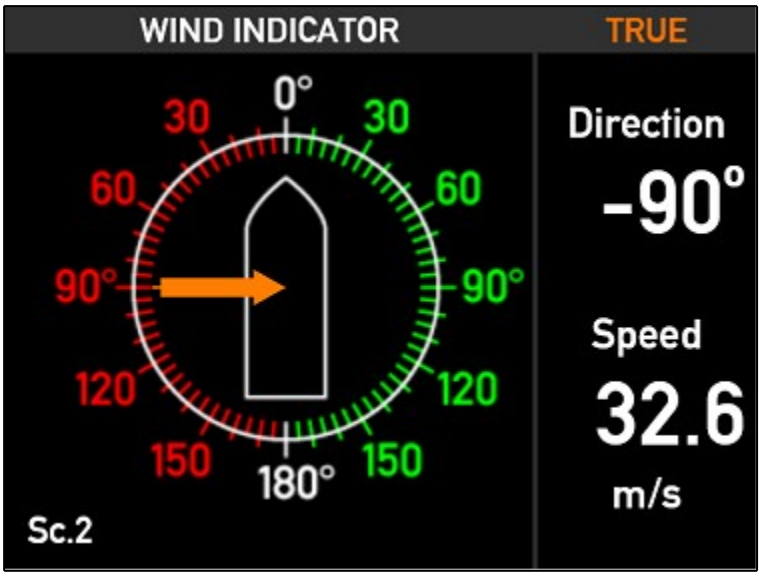
VI-setup profiles (VS) for VI002

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.		

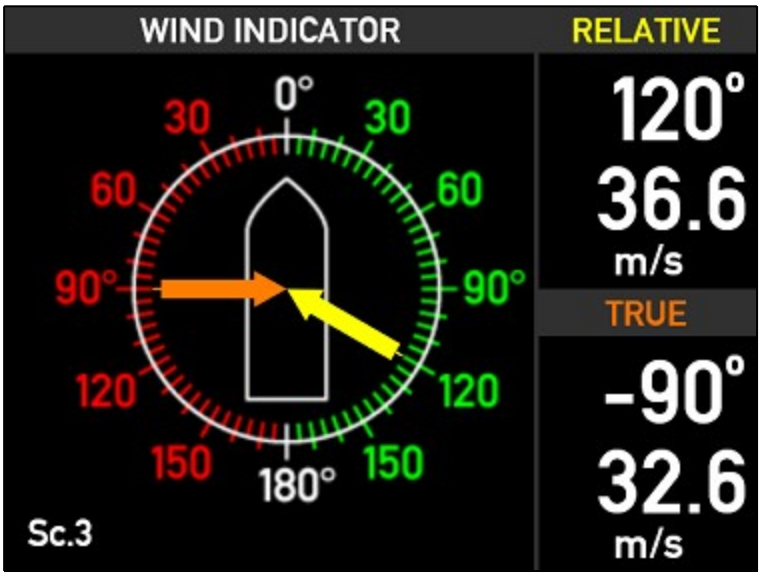
VI 003	Wind RT
Screen 1	S1 Rel. wind



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)

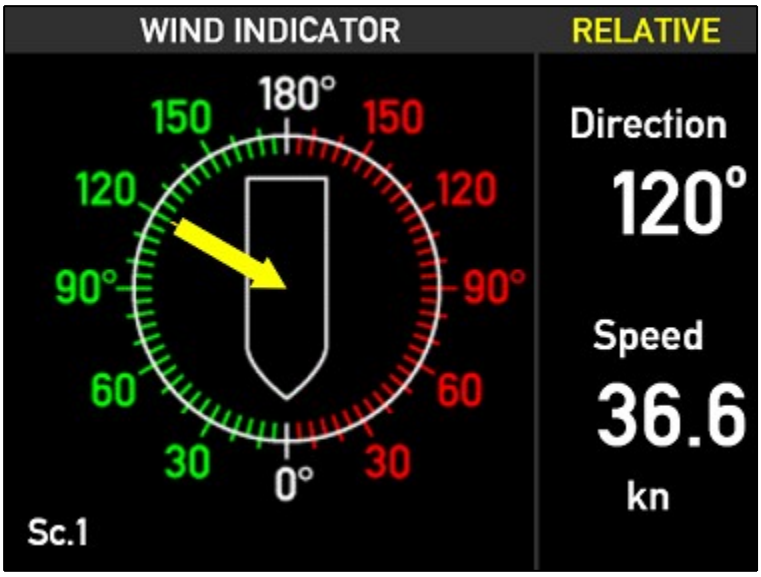
VI-setup profiles (VS) for VI003

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.

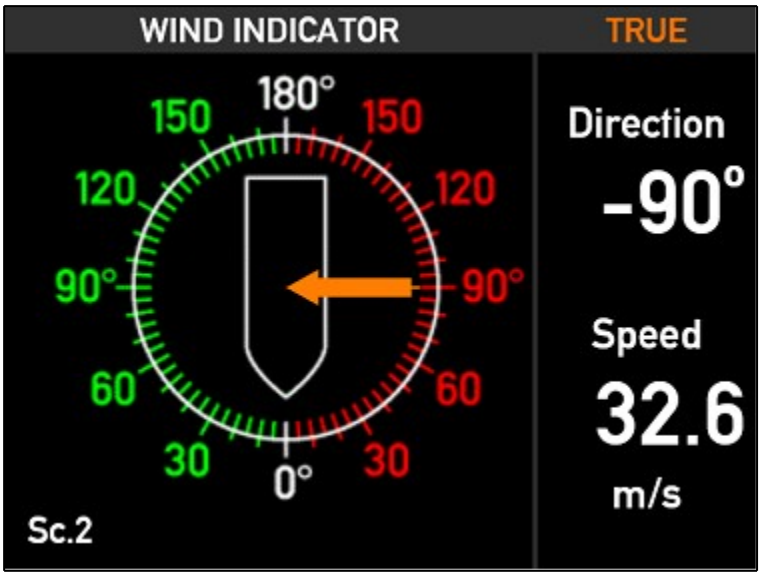
VI-setup profiles (VS) for VI003

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		

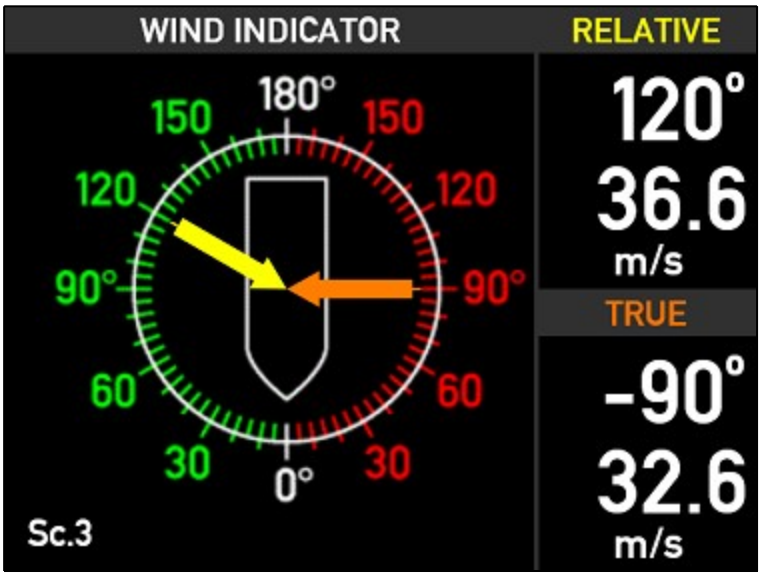
VI 004	Wind RT
Screen 1	S1 Rel. wind



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)

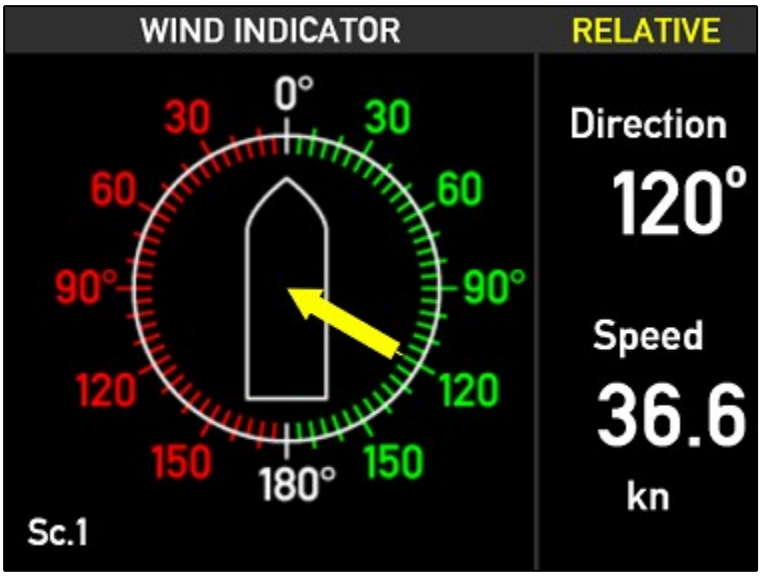
VI-setup profiles (VS) for VI004

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.

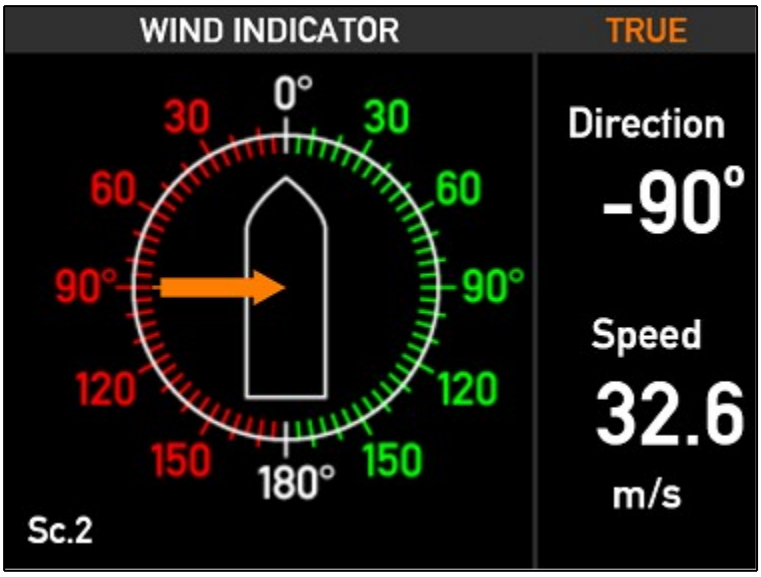
VI-setup profiles (VS) for VI004

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		

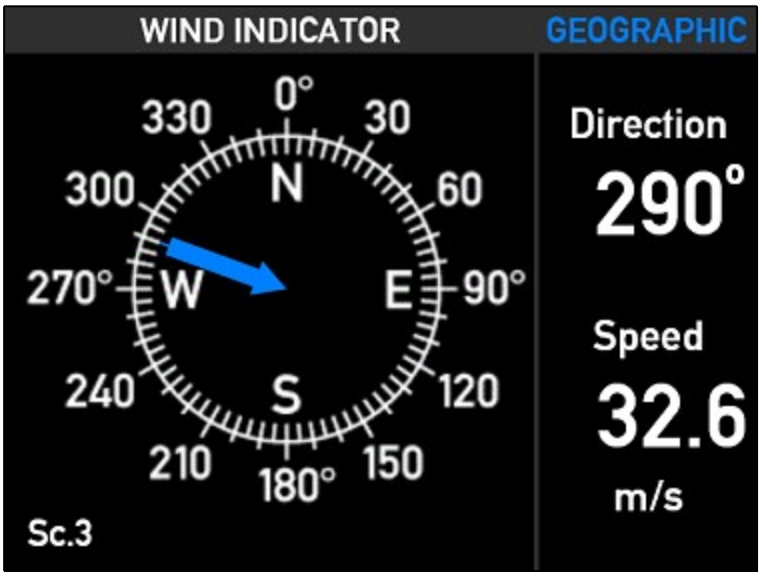
VI 005	Wind RTG
Screen 1	S1 Rel. wind



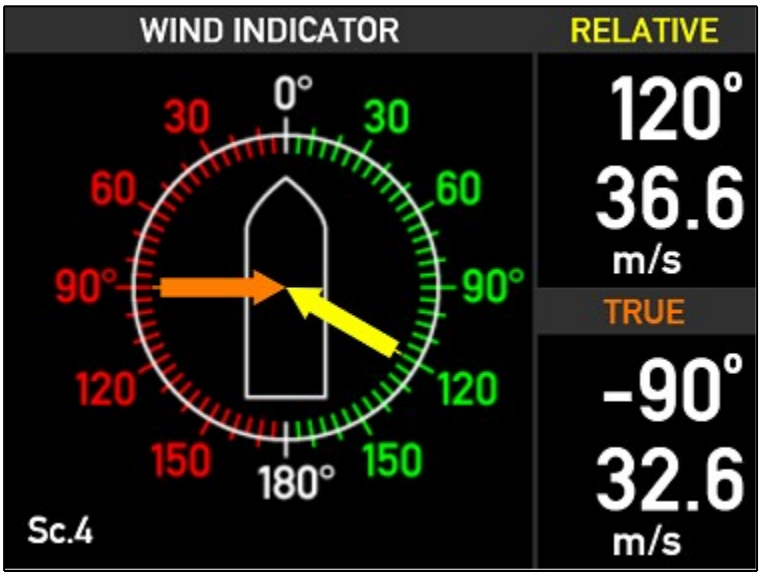
Screen 2	S2 True wind



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

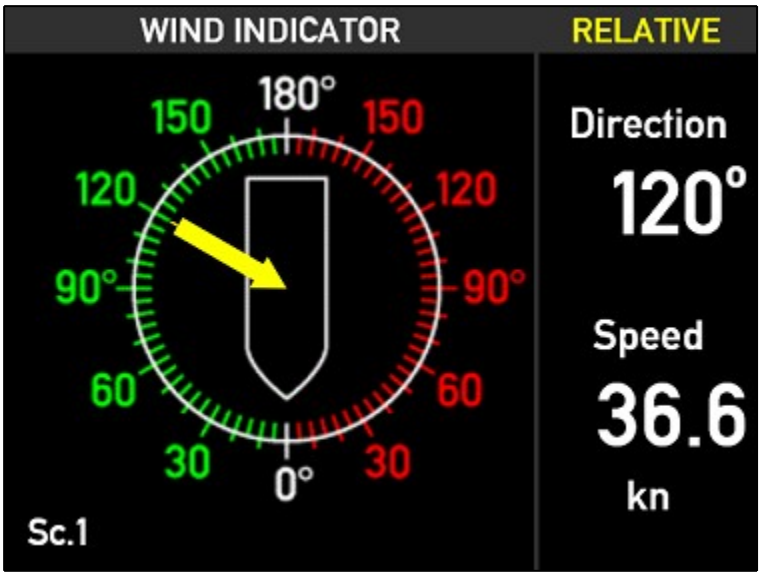
Status :

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)

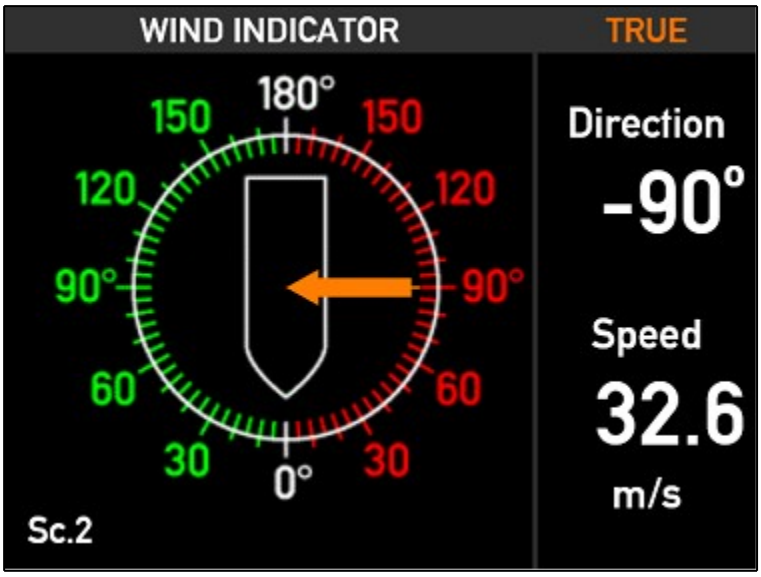
VI-setup profiles (VS) for VI005

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		

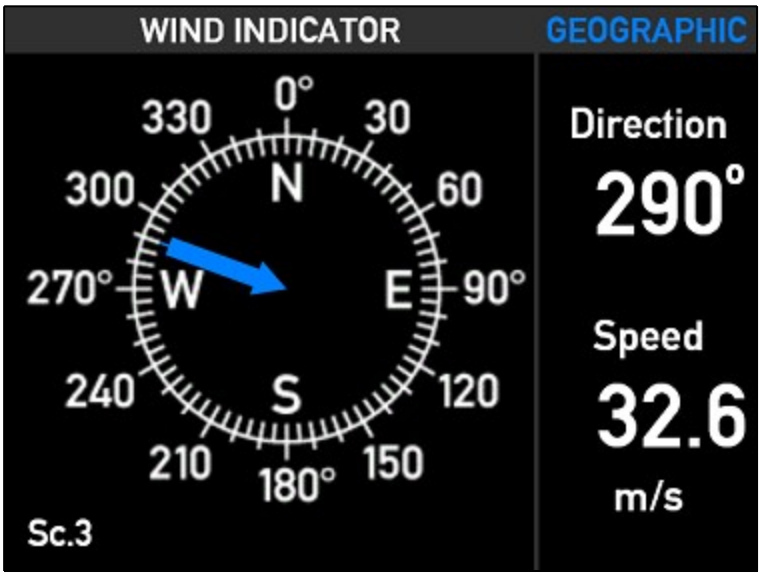
VI 006	Wind RTG
Screen 1	S1 Rel. wind



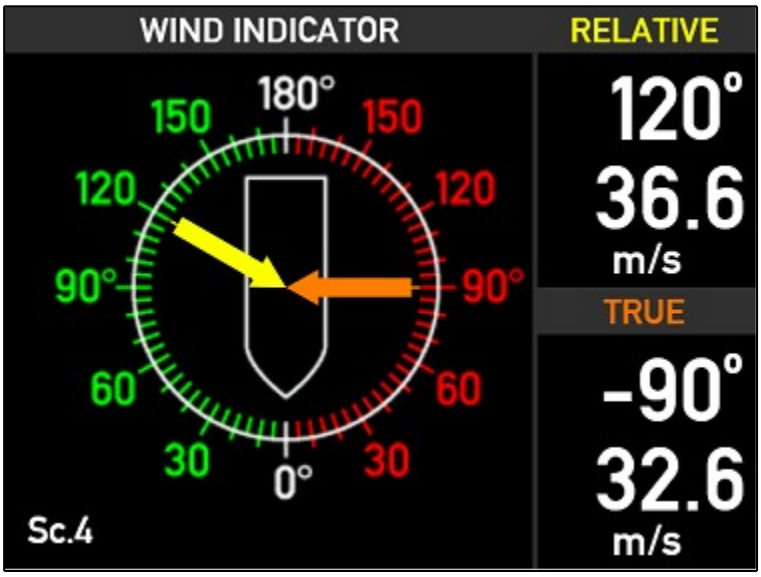
Screen 2	S2 True wind



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