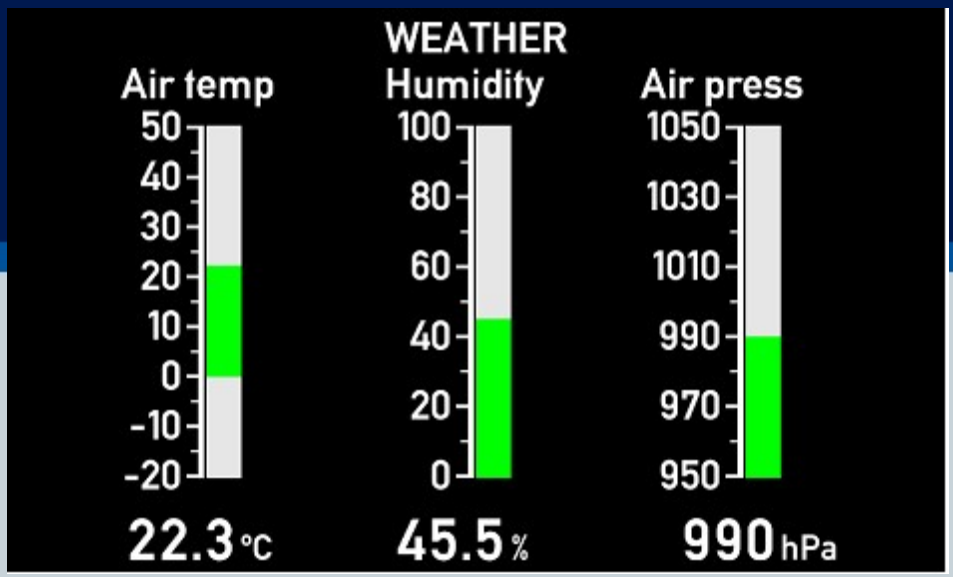
XDi 144/192 Navi

Standard Weather



Library owner: DEIF STANDARD WIND

Library number: 11

Library version: 2006

Table of Contents

Library description :
Selection of standard DEIF weather indicators. Please note that several of the indicators contains mulitple screens for presnetation of both wind and other weather data types.

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

Timestamp 16-09-2020 15:44:55

Library Specification

Library owner no. :	000002
Library owner name :	DEIF STANDARD WIND
Product type :	XDi 144/192
Performance class :	Navi
Library number :	11
Library name :	Standard Weather
Library orientation :	Landscape
Library status :	Released & Locked
Library version :	2006
Last changed :	16-09-2020 15:44:44

Library default settings :

180 display rotation :	False
CAN NodeID :	10

Library notes :

16-09-2020/JOL, ver.2006: Library update to make reception of atm. pressure in bar available from NMEA XDR sentence. Unit ID in XDR shall be B and 1.0 bar = 1000 mbar or hPa.

07-04-2020/JOL, ver.2005: Wind unit shift bug in VI002 and VI003 are fixed.
This update also supports the new display colour adjust function located in the USER NEMU. This function makes it possible to adjust XDi displays to look the same.

11-07-2018: VI-10 added. This indicator presents PTU measurements and show wind direction and speed to north. This is typical used for land based installations.

Product profiles (PP)

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

Timestamp 16-09-2020 15:44:55

PP No.	PP Name	Description	Status	Notes
1	PP01 Front dimmer	**Dimmer from front** Dimmer from front buttons Default: Dimmer group 1. Auto day/night at 70% Send and receive dimmer on XDi-net Supported NMEA sentences: Dimmer(Gr.1-6): DDC (no colour shift) Wind: MWV, MWD, Speed: VHW, VBW, VTG, RMC, Heading: HMR, THS, HTD, VHW, HDT, HDG, MagVar; HMR, RMC, HDG Weather: XDR 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.
2	PP02 XDi-net	**Dimmer via XDi-net** Dimmer from XDi-net Default: Dimmer group 1. Auto day/night at 70% Supported NMEA sentences: No NMEA dimmer support Wind: MWV, MWD, Speed: VHW, VBW, VTG, RMC, Heading: HMR, THS, HTD, VHW, HDT, HDG, MagVar; HMR, RMC, HDG Weather: XDR Shares selected NMEA data 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 dimmer	**Local Dimmer** Dimmer from front buttons Default: Dimmer group: Local Auto day/night at 70% Supported NMEA sentences: Dimmer(Local): DDC (no colour shift) Wind: MWV, MWD, Speed: VHW, VBW, VTG, RMC, Heading: HMR, THS, HTD, VHW, HDT, HDG, MagVar; HMR, RMC, HDG Weather: XDR Shares selected NMEA data 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.

PP No.	PP Name	Description	Status	Notes
4	PP04 Analogue	**Analogue dimmer** Required: AX1 in Slot 1 Default: Dimmer gr. 1 - Auto Day/Night Dimmer potmeter (+ term 3, - term 1, wiper term 2) Dimmer shared on XDi-net Can be reconfigured to voltage input Supported NMEA sentences: No NMEA dimmer support Wind: MWV, MWD, Speed: VHW, VBW, VTG, RMC, Heading: HMR, THS, HTD, VHW, HDT, HDG, MagVar; HMR, RMC, HDG Weather: XDR Shares selected NMEA data on XDi-net		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.
5	PP05 NMEA	**NMEA/XDi-net dimmer** Separate Dimmer and Day/Night shift via NMEA and/or XDi-net Default: Dimmer group 1. Supported NMEA sentences: Dimmer and Day/Night shift (Gr.1-6): DDC Wind: MWV, MWD, Speed: VHW, VBW, VTG, RMC, Heading: HMR, THS, HTD, VHW, HDT, HDG, MagVar; HMR, RMC, HDG Weather: XDR Shares selected NMEA data 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.

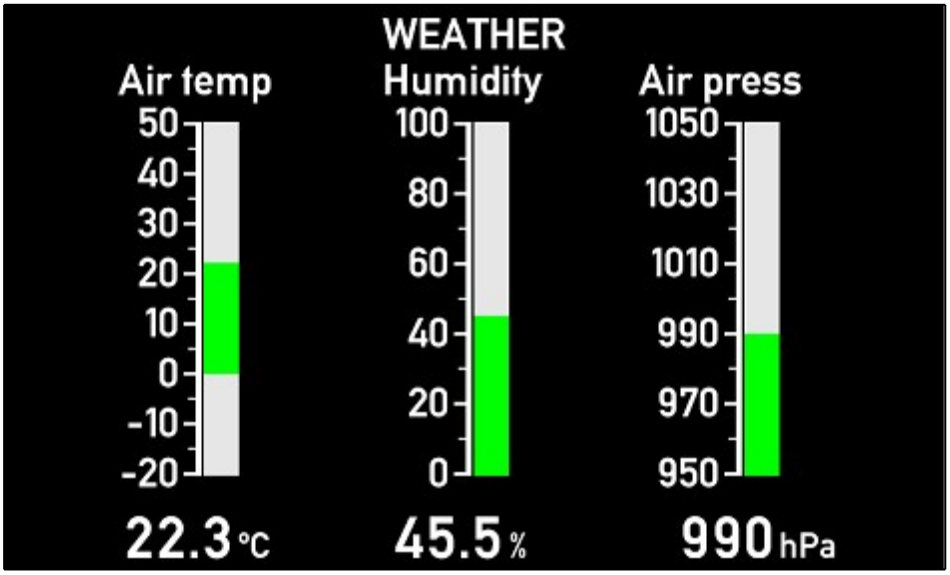
Timestamp **16-09-2020 15:44:55**

VI No.	Name	VI-setup profiles (VS)	MED Approval	Status
001	PTU	2		
002	PTU, wind R	2		
003	PTU, wind R Aft	2		
004	PTU, wind	3		
005	PTU, wind Aft	3		
006	PTU, wind	3		
007	PTU, Wind Aft	3		
008	PTU, wind	3		
009	PTU, wind Aft	3		
010	PTU, wind Geo	2		

Timestamp 16-09-2020 15:44:55

VI 001 **PTU**

Screen 1 **Weather**



Description : **PTU meaurements**

Weather presentation of air temperature, humidity and barometric pressure

Bargraph presentation of
temperature, humidity and pressure.
One selectable headline for all screens
Unit set to fixed indications

Status :

VI Notes :

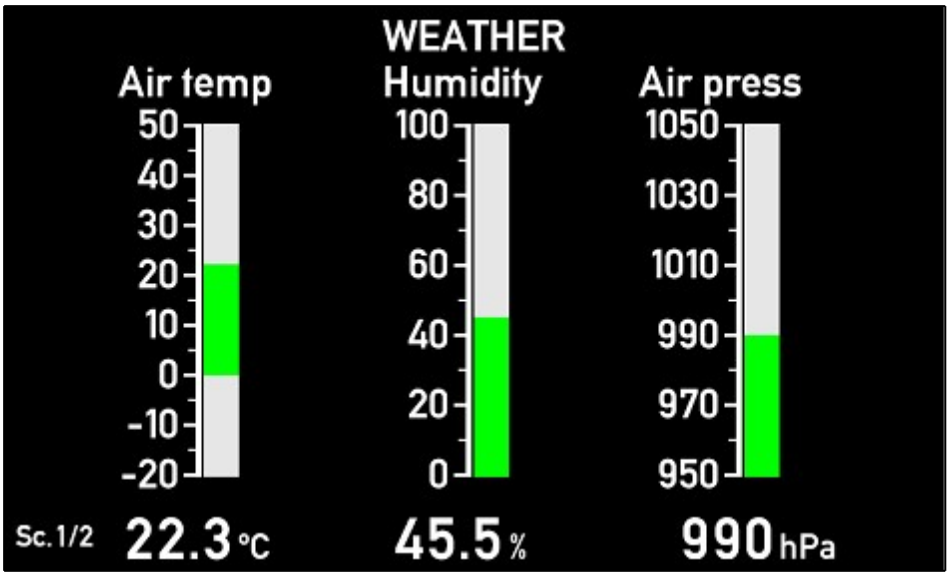
VI-setup profiles (VS) for VI001

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	**XDi-net repeater** Use this profile when input data are available on XDi-net. XDi-net data are typically supplied from another XDi, setup to receive NMEA data via NX2 module or share data. With NX1 module on Slot 1 or 2: Supported for XDi-net to NMEA output: MWV1: Relative wind Output are selected and activated from menu !		

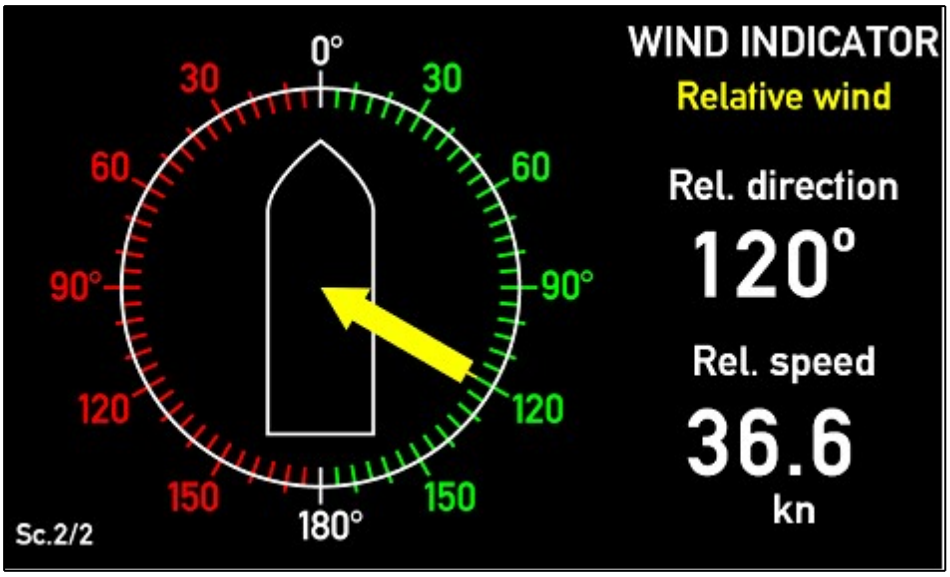
VI-setup profiles (VS) for VI001

VS No.	Name	Description	Status	Notes
2	VS02 NMEA input	**NMEA input** Requires NX2 extension module on Slot 2. Default NMEA connections: Weather data from sensor WXT534 S2.1 RS422 or S2.3 RS422. Run NMEA auto input setup to configure		

VI 002	**PTU, wind R**
Screen 1	**S1 Weather**



Screen 2	**S2 Rel. wind**



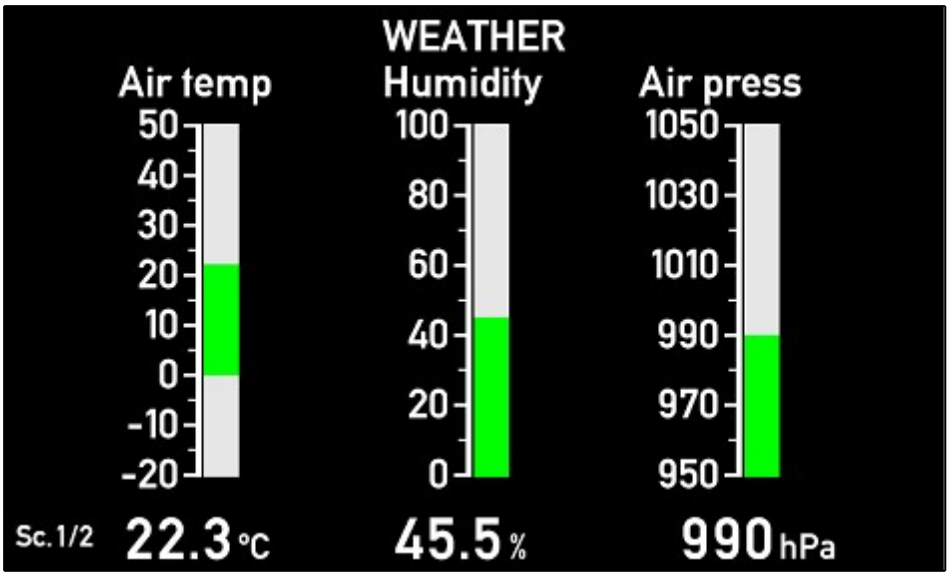
Description :	**PTU and wind FWD, 2 screen** Weather indications and indication of relavtive wind One selectable headline for all screens Unit fixed for weather presentation Selectable speed unit for wind
Status :	
VI Notes :	

VI-setup profiles (VS) for VI002

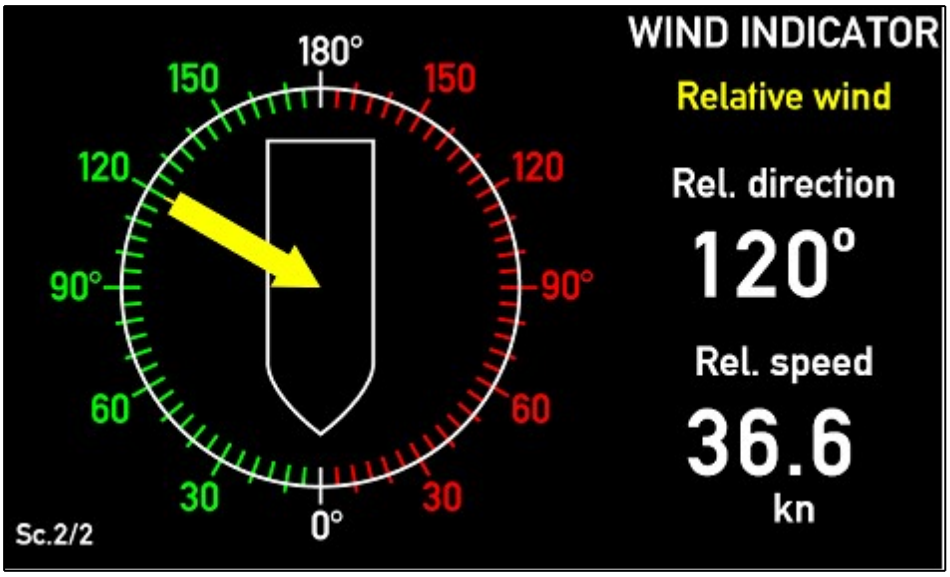
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	**XDi-net repeater** Use this profile when input data are available on XDi-net. XDi-net data are typically supplied from another XDi, setup to receive NMEA data via NX2 module or share data. With NX1 module on Slot 1 or 2: Supported for XDi-net to NMEA output: MWV1: Relative wind Output are selected and activated from menu !		
2	VS02 NMEA 1	**NMEA0183 in/out** Requires NX2 extension module on Slot 2. Default NMEA connections: Weather data from WXT534 sensor at S2.1 RS422 or S2.3 RS422. Relative wind sensor data at S2.2 RX/TX2 (RS485). Run NMEA auto input setup to configure NMEA output: MWV 1: Relative wind Must be activated from menu. Note: Wind direction is corrected for sensor offset.		

VI 003	**PTU, wind R Aft**

Screen 1 **S1 Weather**



Screen 2 **S1 Rel. wind**



Description : **PTU and wind AFT, 2 screen**

Weather indications and
indication of relavtive wind

One selectable headline for all screens
Unit fixed for weather presentation
Selectable speed unit for wind

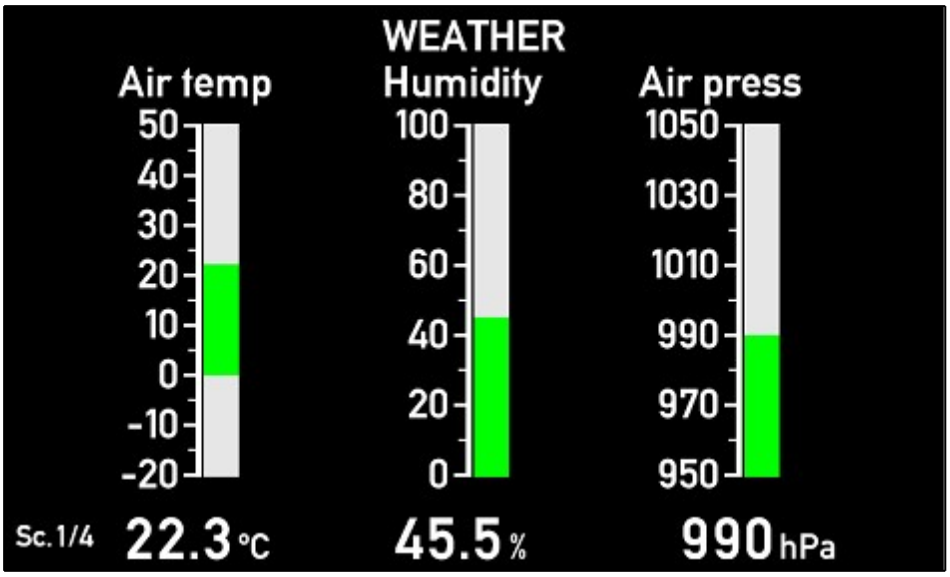
Status :

VI Notes :

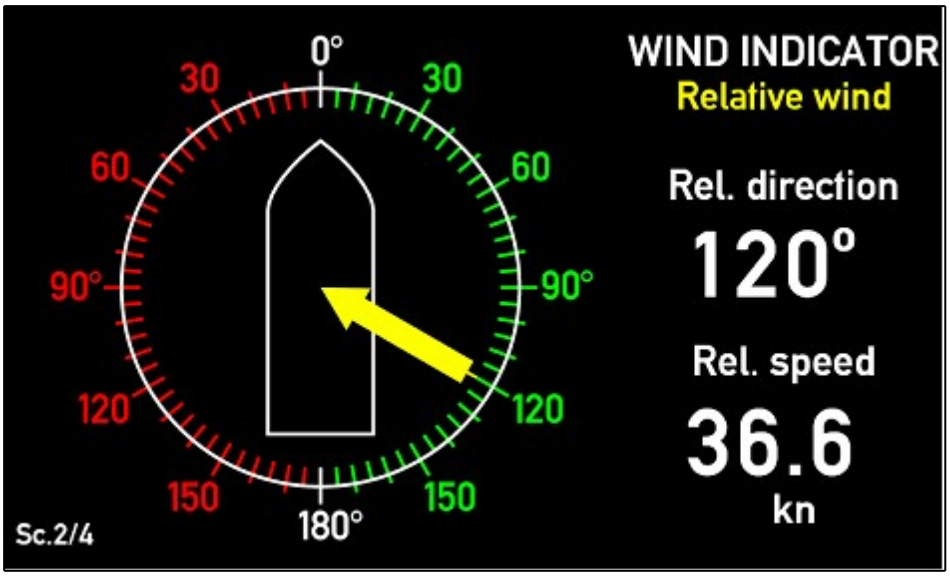
VI-setup profiles (VS) for VI003

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	**XDi-net repeater** Use this profile when input data are available on XDi-net. XDi-net data are typically supplied from another XDi, setup to receive NMEA data via NX2 module or share data. With NX1 module on Slot 1 or 2: Supported for XDi-net to NMEA output: MWV1: Relative wind Output are selected and activated from menu !		
2	VS02 NMEA 1	**NMEA0183 in/out** Requires NX2 extension module on Slot 2. Default NMEA connections: Weather data from WXT534 sensor at S2.1 RS422 or S2.3 RS422. Relative wind sensor data at S2.2 RX/TX2 (RS485). Run NMEA auto input setup to configure NMEA output: MWV 1: Relative wind Must be activated from menu. Note: Wind direction is corrected for sensor offset.		

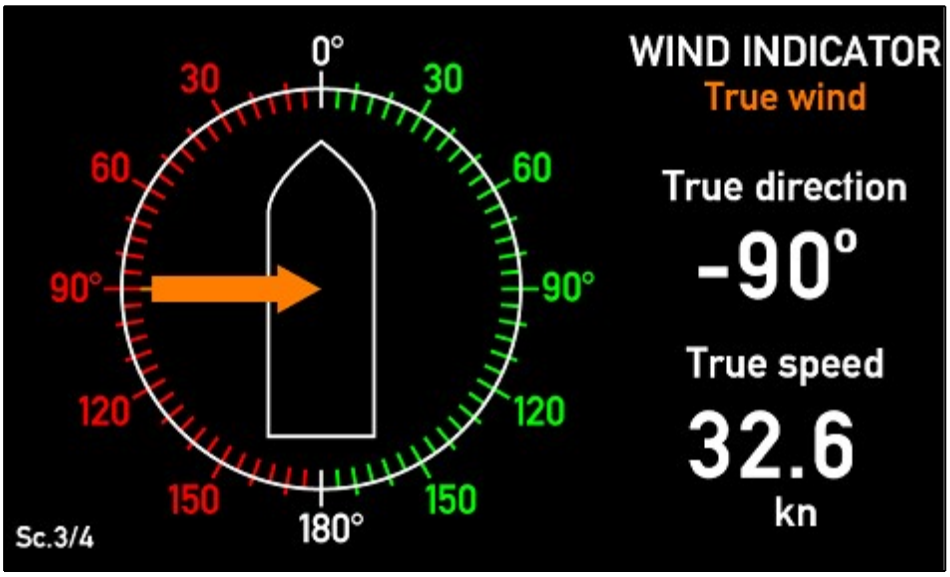
VI 004	PTU, wind
Screen 1	S1 Weather



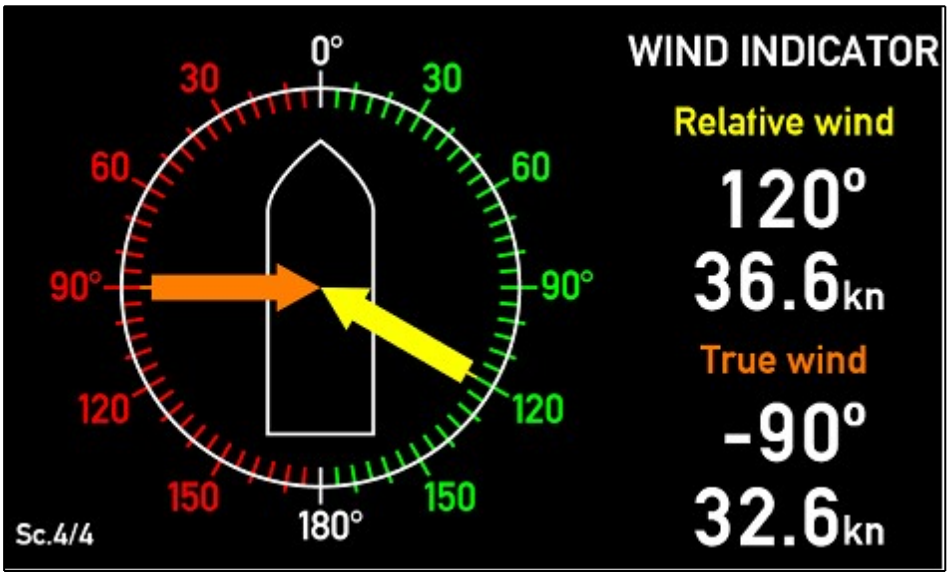
Screen 2	S2 Rel. wind



Screen 3 **S3 True wind**



Screen 4 **S4 Rel+True wind**



Description : **PTU and wind FWD, 4 screen**

Weather indications and
indication of relavtive and true wind

One selectable headline for all screens
Unit fixed for weather presentation
Selectable speed unit for wind

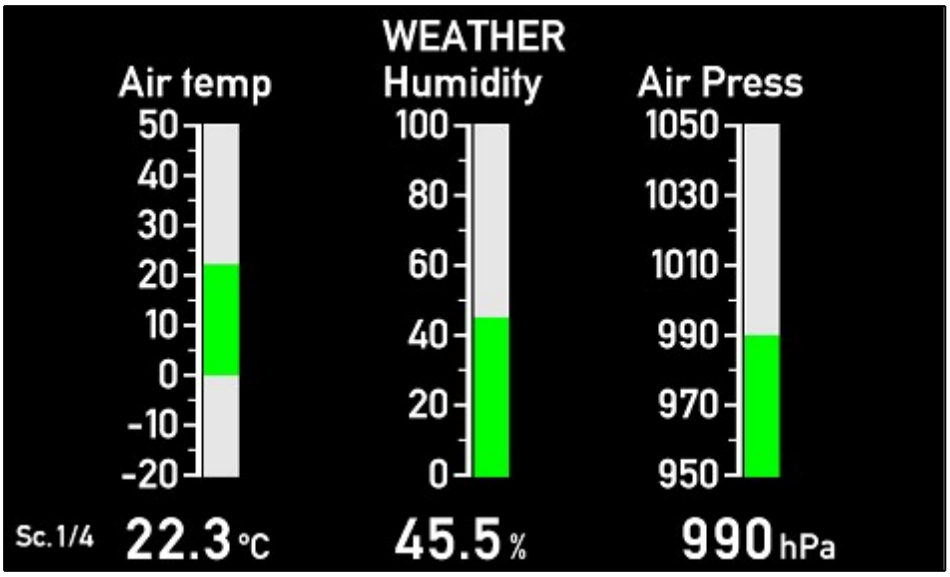
Status :

VI Notes :

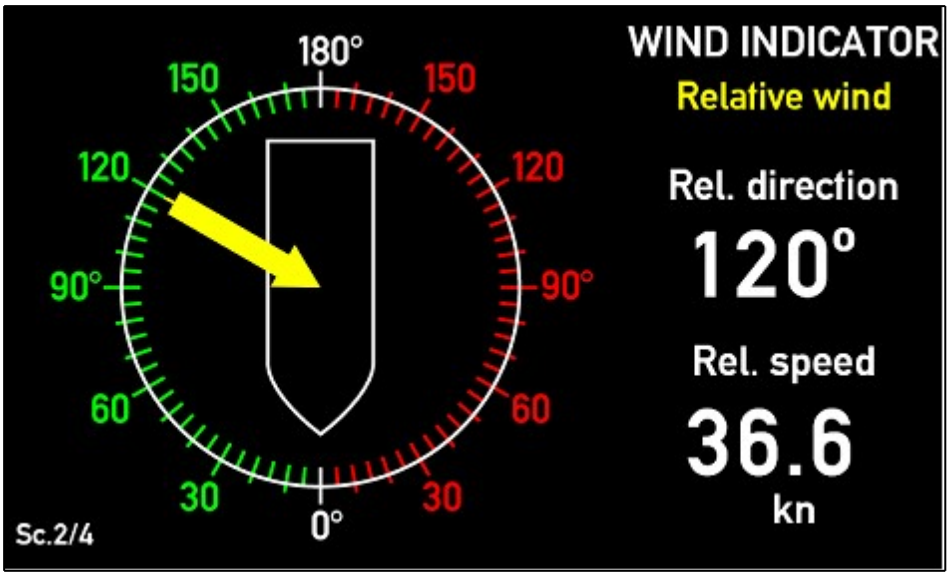
VI-setup profiles (VS) for VI004

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	**XDi-net repeater** Use this profile when all input data are available on XDi-net. XDi-net data are typically supplied from another XDi, setup to receive NMEA data via NX2 module and/or calculated and share data. With NX1 module on Slot 1 or 2: Supported for XDi-net to NMEA output: MWV1: Relative wind and True wind rel. ship MWD1: Geographic true wind Output are selected and activated from menu !		
2	VS02 NMEA 1	**NMEA0183 in/out** Requires NX2 extension module on Slot 2. Default NMEA connections: Relative wind sensor data at S2.2 RX/TX2 (RS485). Weather data from WXT534 and true wind at input S2.1 or S2.3 Run NMEA auto input setup to configure NMEA output: MWV 1: Relative wind and True wind (repeated) MVD1: Geo. true wind (repeated) Must be activated from menu. Note: Wind direction is corrected for sensor offset.		
3	VS03 NMEA 2	**NMEA0183 - Calculate** NX2 extension module is required on Slot 2. Default NMEA connection: Relative wind data at input S2.2 RX/TX2 (RS485). Weather data from WXT534 sensor at S2.1 or S.3. Speed and heading at input S2.1 or S2.3 are used to calculate true wind. Run NMEA auto input setup to configure Additional NX2 module might be required. NMEA output: MWV1 : Relative wind and True wind MWD1: Geographic true wind Must be activated from menu. Note: Wind direction is corrected for sensor offset.		

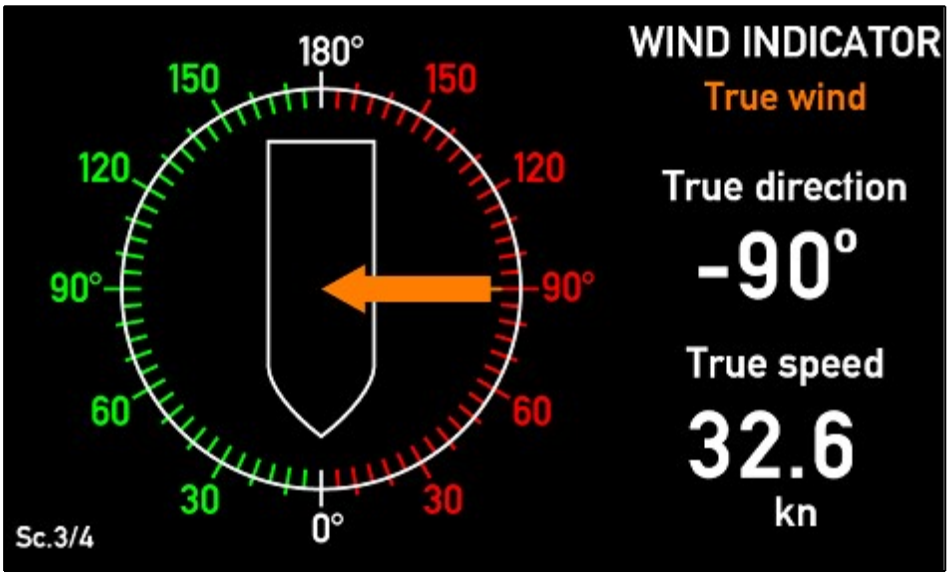
VI 005	PTU, wind Aft
Screen 1	S1 Weather



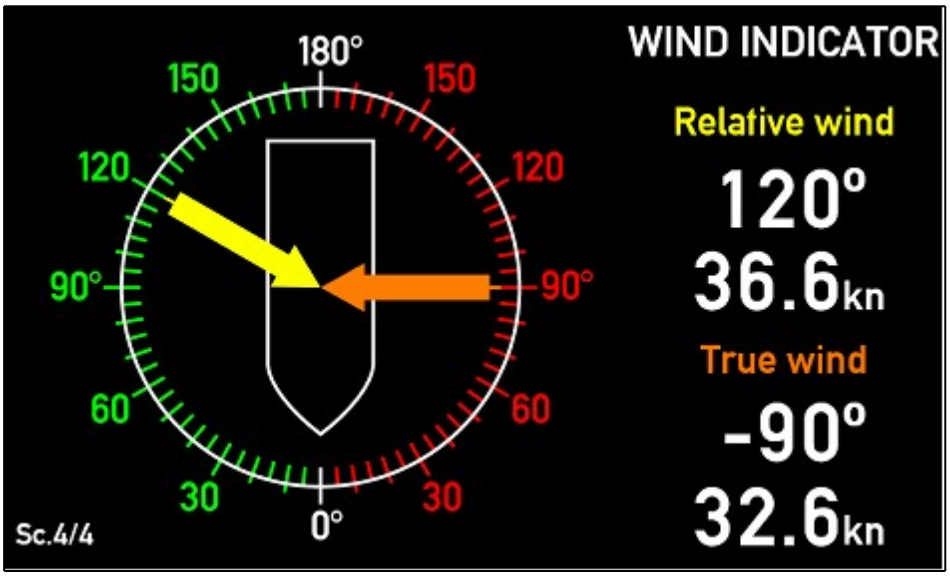
Screen 2	S2 Rel. wind



Screen 3 **S3 True wind**



Screen 4 **S4 Rel+True wind**



Description : **PTU and wind FWD, 4 screen**

Weather indications and
indication of relavtive and true wind

Wind direction and wind speed (max 150 m/s)
One selectable headline for all screens
Selectable speed unit

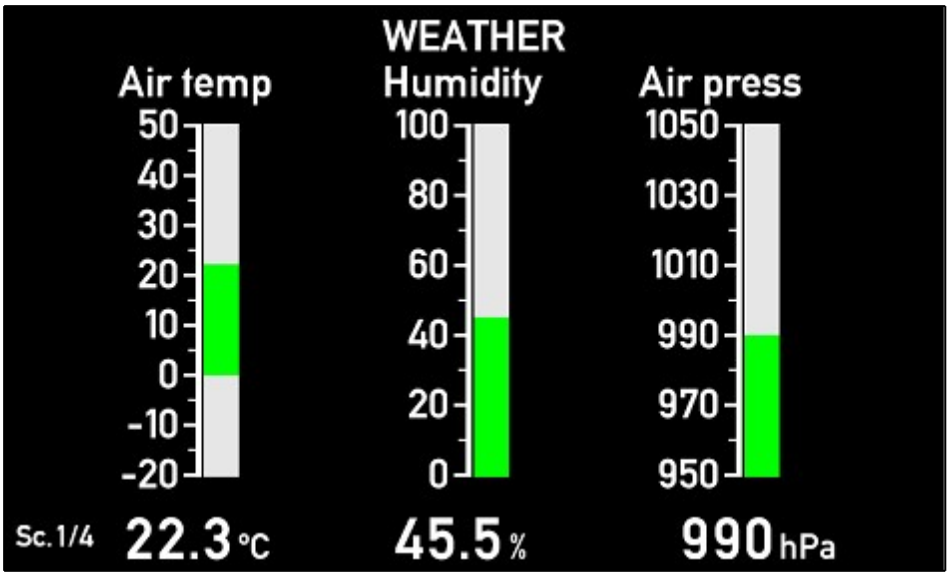
Status :

VI Notes :

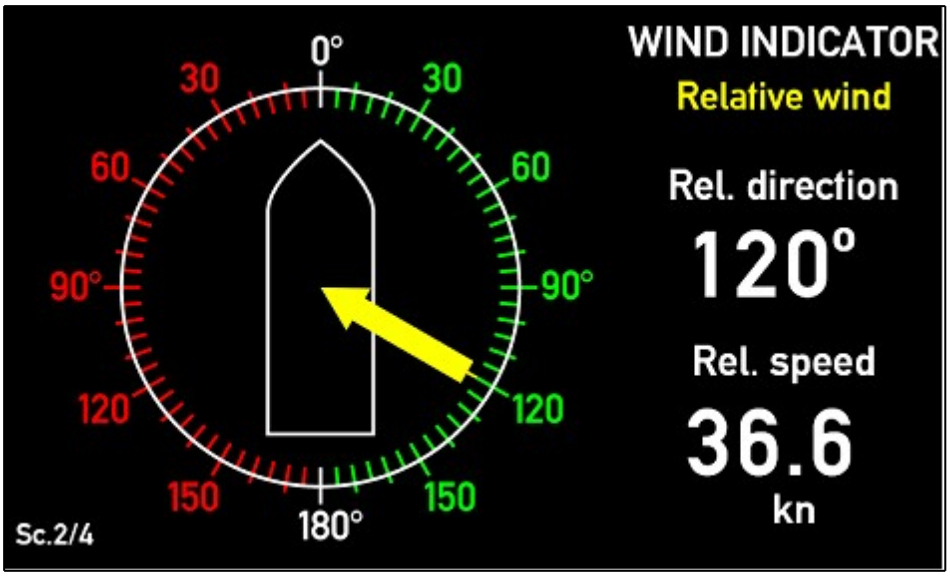
VI-setup profiles (VS) for VI005

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	**XDi-net repeater** Use this profile when all input data are available on XDi-net. XDi-net data are typically supplied from another XDi, setup to receive NMEA data via NX2 module and/or calculated and share data. With NX1 module on Slot 1 or 2: Supported for XDi-net to NMEA output: MWV1: Relative wind and True wind rel. ship MWD1: Geographic true wind Output are selected and activated from menu !		
2	VS02 NMEA 1	**NMEA wind in/out** Requires NX2 extension module on Slot 2. Default NMEA connections: Relative wind sensor data at S2.2 RX/TX2 (RS485). Weather data from WXT534 and true wind at input S2.1 or S2.3 Run NMEA auto input setup to configure NMEA output: MWV 1: Relative wind and True wind (repeated) MVD1: Geo. true wind (repeated) Must be activated from menu. Note: Wind direction is corrected for sensor offset.		
3	VS03 NMEA 2	**NMEA - Calculate wind** NX2 extension module is required on Slot 2. Default NMEA connection: Relative wind data at input S2.2 RX/TX2 (RS485). Weather data from WXT534 sensor at S2.1 or S.3. Speed and heading at input S2.1 or S2.3 are used to calculate true wind. Run NMEA auto input setup to configure Additional NX module might be required. NMEA output: MWV1 : Relative wind and True wind MWD1: Geographic true wind Must be activated from menu. Note: Wind direction is corrected for sensor offset.		

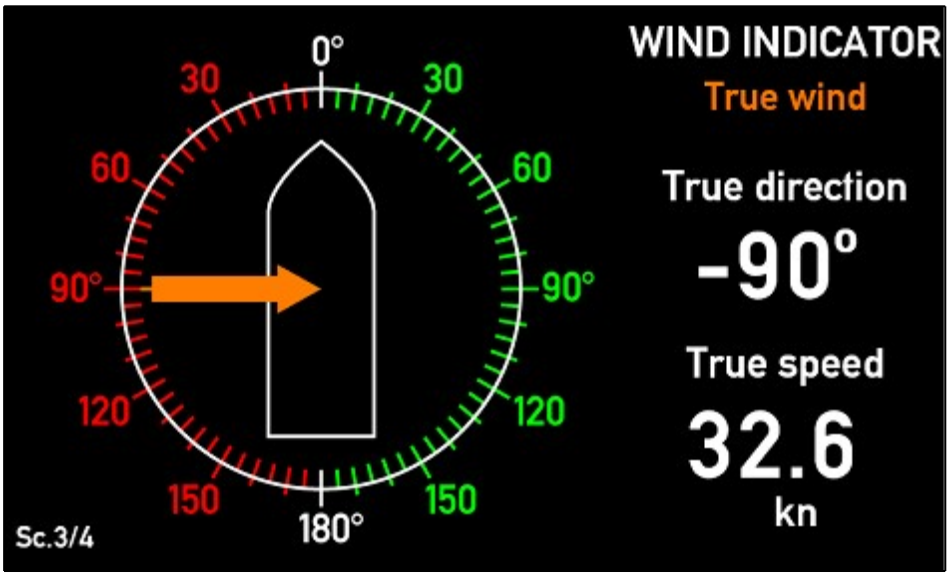
VI 006	PTU, wind
Screen 1	S1 Weather



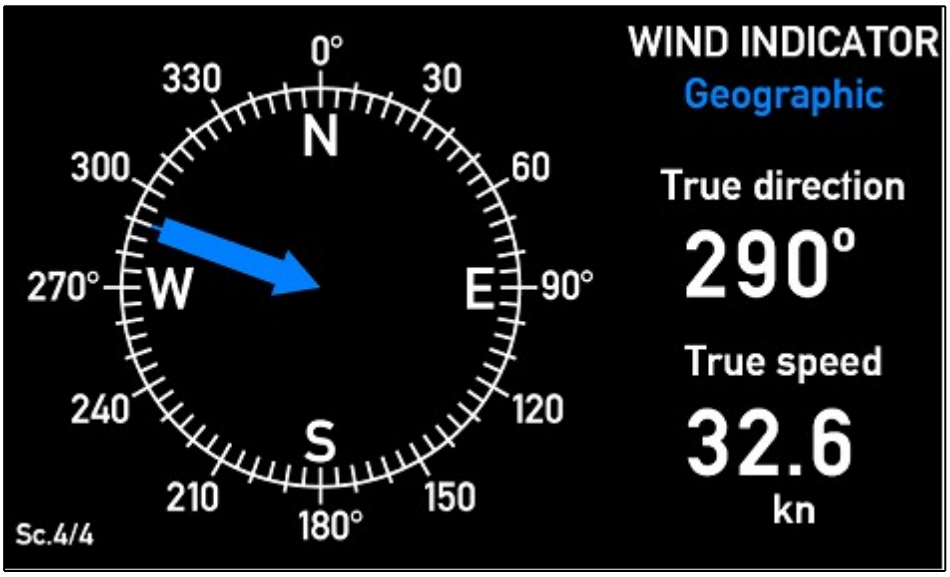
Screen 2	S2 Rel. wind



Screen 3 **S3 True wind**



Screen 4 **S4 Geo wind**



Description : **PTU and wind FWD, 4 screen**

Weather indications
Relative, true and geo. true wind
Geo. wind relative to True North
Wind direction and wind speed (max 150 m/s)
One selectable headline for all screens
Selectable speed unit

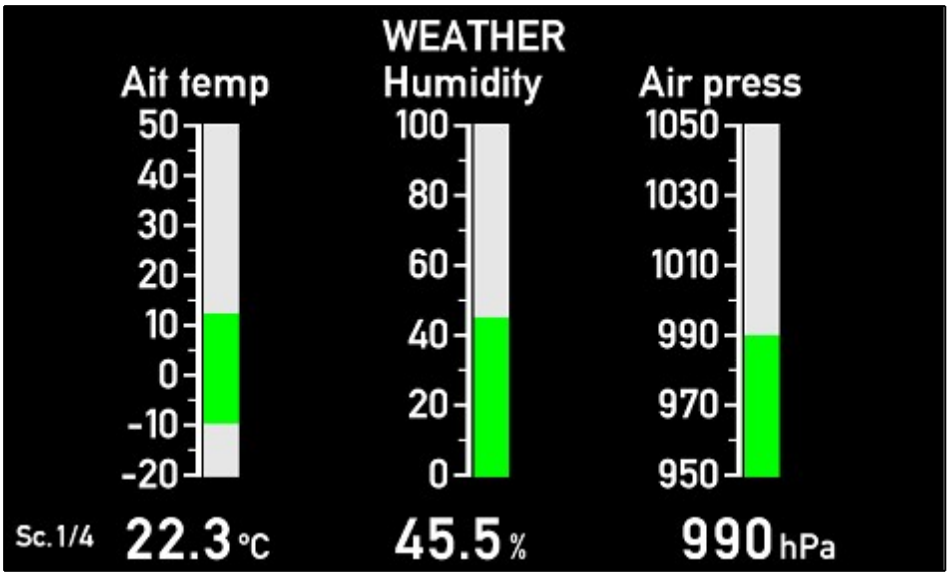
Status :

VI Notes :

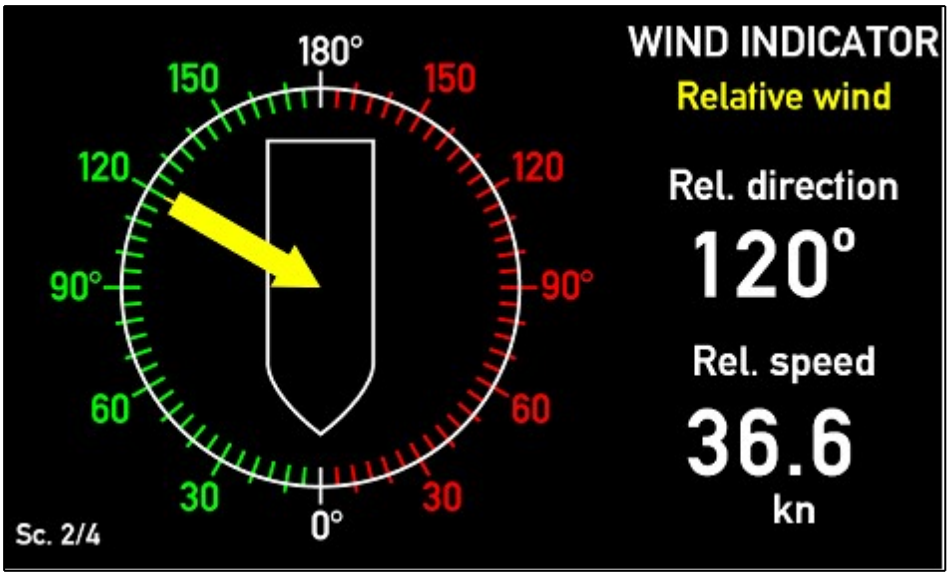
VI-setup profiles (VS) for VI006

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	**XDi-net repeater** Use this profile when all input data are available on XDi-net. XDi-net data are typically supplied from another XDi, setup to receive NMEA data via NX2 module and/or calculated and share data. With NX1 module on Slot 1 or 2: Supported for XDi-net to NMEA output: MWV1: Relative wind and True wind rel. ship MWD1: Geographic true wind Output are selected and activated from menu !		
2	VS02 NMEA 1	**NMEA0183 in/out** Requires NX2 extension module on Slot 2. Default NMEA connections: Relative wind sensor data at S2.2 RX/TX2 (RS485). Weather data from WXT534, true and Geographic true wind at input S2.1 or S2.3 Run NMEA auto input setup to configure Additional NX module might be required. NMEA output: MWV 1: Relative wind and True wind (repeated) MVD1: Geo. true wind (repeated) Must be activated from menu. Note: Wind direction is corrected for sensor offset.		
3	VS03 NMEA 2	**NMEA0183 - Calculate** NX2 extension module is required on Slot 2. Default NMEA connection: Relative wind data at input S2.2 RX/TX2 (RS485). Weather data from WXT534 sensor at S2.1 or S.3. Speed and heading at input S2.1 or S2.3 are used to calculate true wind. Run NMEA auto input setup to configure Additional NX module might be required. NMEA output: MWV1 : Relative wind and True wind MWD1: Geographic true wind Must be activated from menu. Note: Wind direction is corrected for sensor offset.		If more NMEA input is required an NX2 extension module can also be set on slot 1

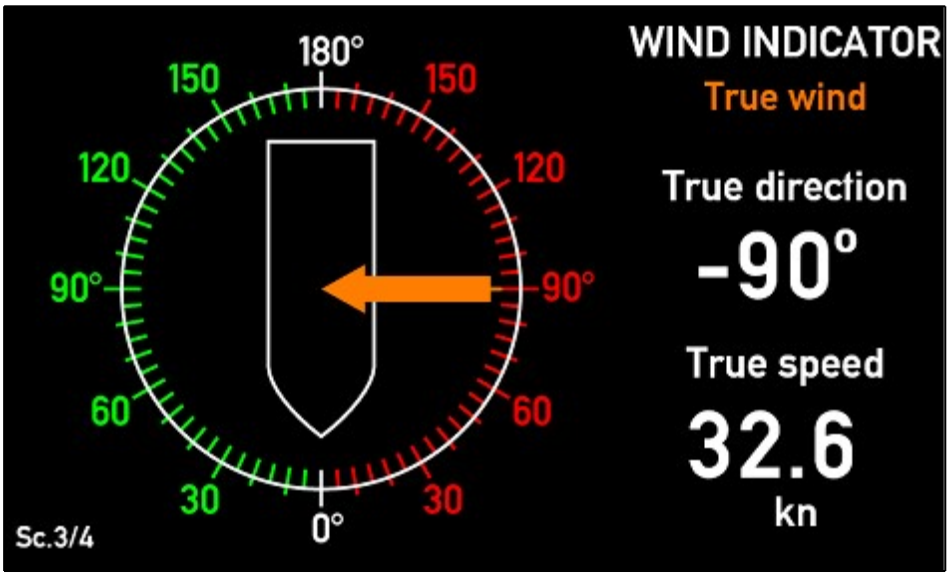
VI 007	PTU, Wind Aft
Screen 1	S1 Weather



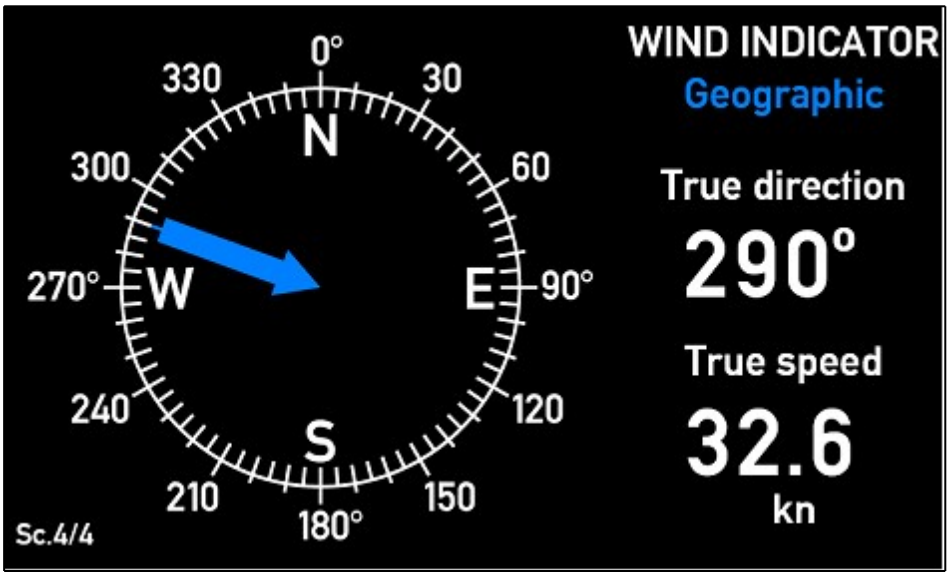
Screen 2	S2 Rel. wind



Screen 3 **S3 True wind**



Screen 4 **S4 Geo wind**



Description : **PTU and wind AFT, 4 screen**

Weather indications
Relative, true and geo. true wind
Geo. wind relative to True North
Wind direction and wind speed (max 150 m/s)
One selectable headline for all screens
Selectable speed unit

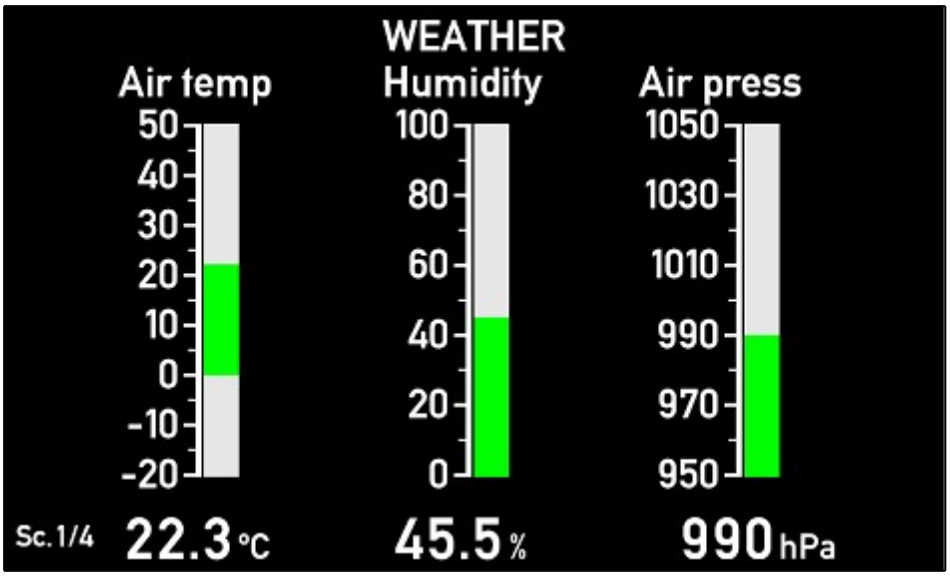
Status :

VI Notes :

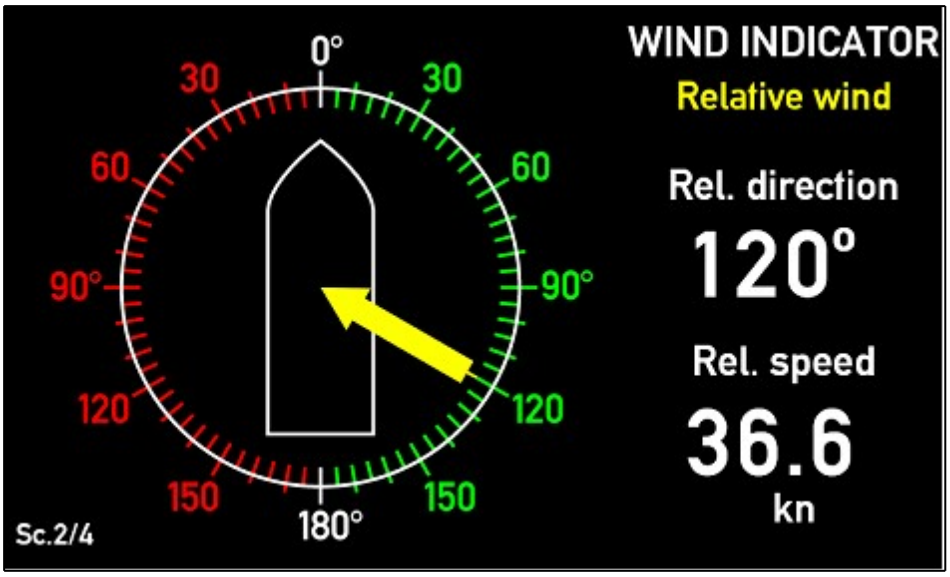
VI-setup profiles (VS) for VI007

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	**XDi-net repeater** Use this profile when all input data are available on XDi-net. XDi-net data are typically supplied from another XDi, setup to receive NMEA data via NX2 module and/or calculated and share data. With NX1 module on Slot 1 or 2: Supported for XDi-net to NMEA output: MWV1: Relative wind and True wind rel. ship MWD1: Geographic true wind Output are selected and activated from menu !		
2	VS02 NMEA 1	**NMEA wind in/out** Requires NX2 extension module on Slot 2. Default NMEA connections: Relative wind sensor data at S2.2 RX/TX2 (RS485). Weather data from WXT534, true and Geographic true wind at input S2.1 or S2.3 Run NMEA auto input setup to configure Additional NX module might be required. NMEA output: MWV 1: Relative wind and True wind (repeated) MVD1: Geo. true wind (repeated) Must be activated from menu. Note: Wind direction is corrected for sensor offset.		
3	VS03 NMEA 2	**NMEA - Calculate wind** NX2 extension module is required on Slot 2. Default NMEA connection: Relative wind data at input S2.2 RX/TX2 (RS485). Weather data from WXT534 sensor at S2.1 or S.3. Speed and heading at input S2.1 or S2.3 are used to calculate true wind. Run NMEA auto input setup to configure Additional NX module might be required. NMEA output: MWV1 : Relative wind and True wind MWD1: Geographic true wind Must be activated from menu. Note: Wind direction is corrected for sensor offset.		

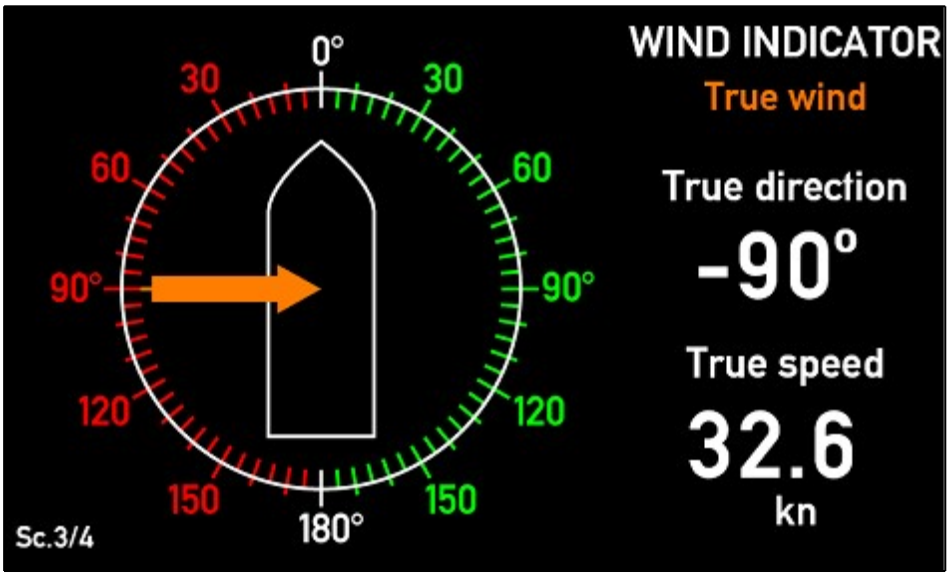
VI 008	PTU, wind
Screen 1	S1 Weather



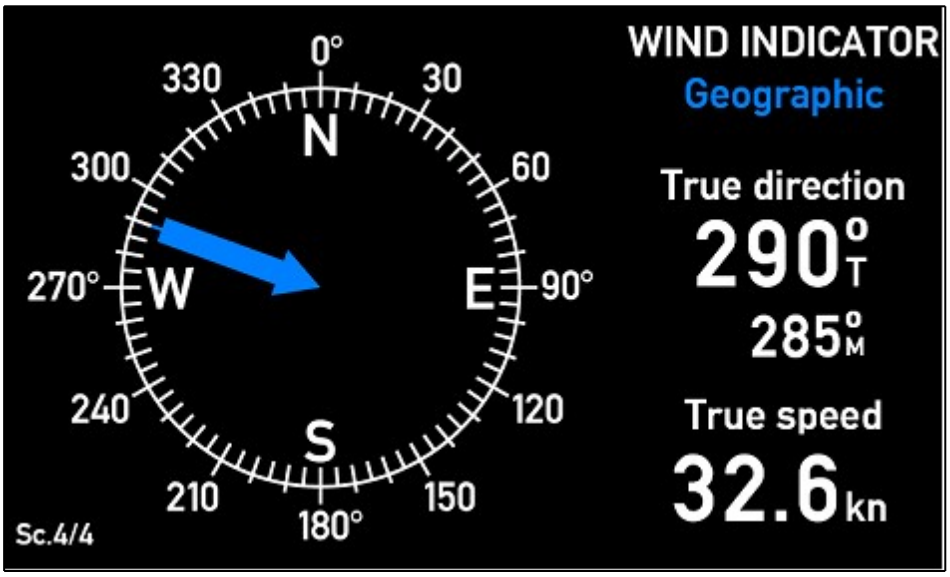
Screen 2	S2 Rel. wind



Screen 3 **S3 True wind**



Screen 4 **S4 Geo wind**



Description : **PTU and wind FWD, 4 screen**

Weather indications
Relative, true and geo. true wind
Geo. wind relative to Magn. and True N
Wind direction and wind speed (max 150 m/s)
One selectable headline for all screens
Selectable speed unit

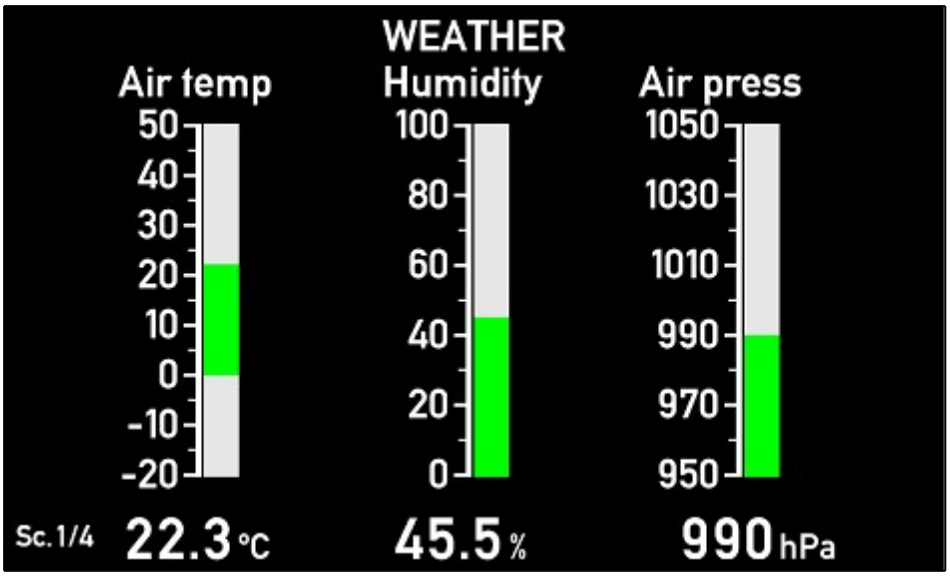
Status :

VI Notes :

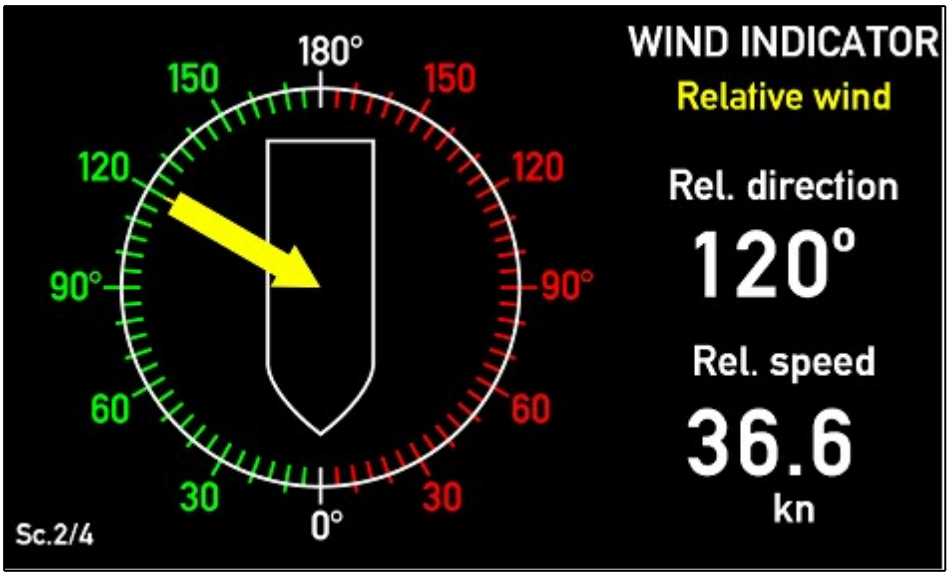
VI-setup profiles (VS) for VI008

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	**XDi-net repeater** Use this profile when all input data are available on XDi-net. XDi-net data are typically supplied from another XDi, setup to receive NMEA data via NX2 module and/or calculated and share data. With NX1 module on Slot 1 or 2: Supported for XDi-net to NMEA output: MWV1: Relative wind and True wind rel. ship MWD1: Geographic true wind (T+M) Output are selected and activated from menu !		
2	VS02 NMEA 1	**NMEA0183 in/out** Requires NX2 extension module on Slot 2. Default NMEA connections: Relative wind sensor data at S2.2 RX/TX2 (RS485). Weather data from WXT534, true and Geographic true wind at input S2.1 or S2.3 Run NMEA auto input setup to configure Additional NX module might be required. NMEA output: MWV 1: Relative wind and True wind (repeated) MVD1: Geo. true wind (repeated) Must be activated from menu. Note: Wind direction is corrected for sensor offset.		
3	VS03 NMEA 2	**NMEA0183 - Calculate** NX2 extension module is required on Slot 2. Default NMEA connection: Relative wind data at input S2.2 RX/TX2 (RS485). Weather data from WXT534 sensor at S2.1 or S.3. Speed and heading at input S2.1 or S2.3 are used to calculate true wind. Run NMEA auto input setup to configure Additional NX module might be required. NMEA output: MWV1 : Relative wind and True wind MWD1: Geographic true wind Must be activated from menu. Note: Wind direction is corrected for sensor offset.		

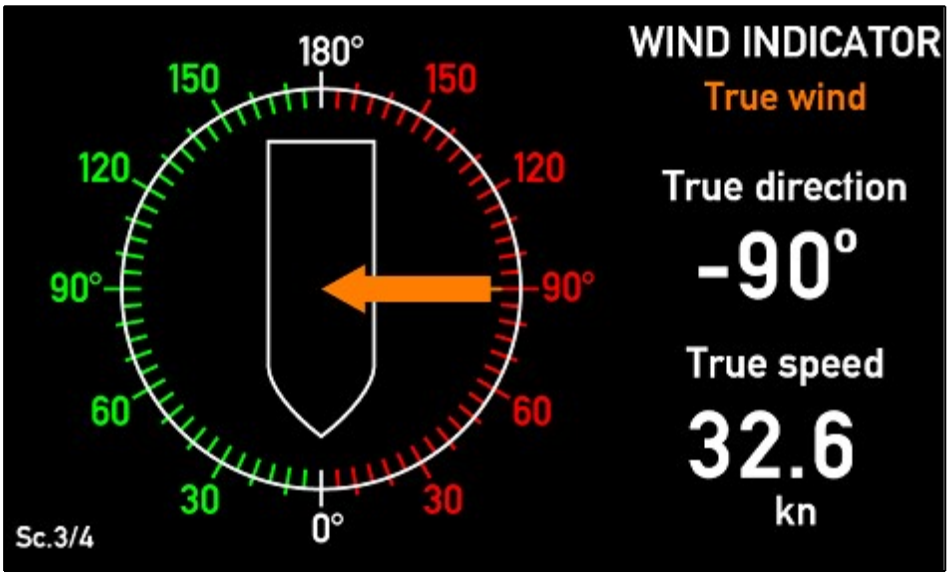
VI 009	PTU, wind Aft
Screen 1	S1 Weather



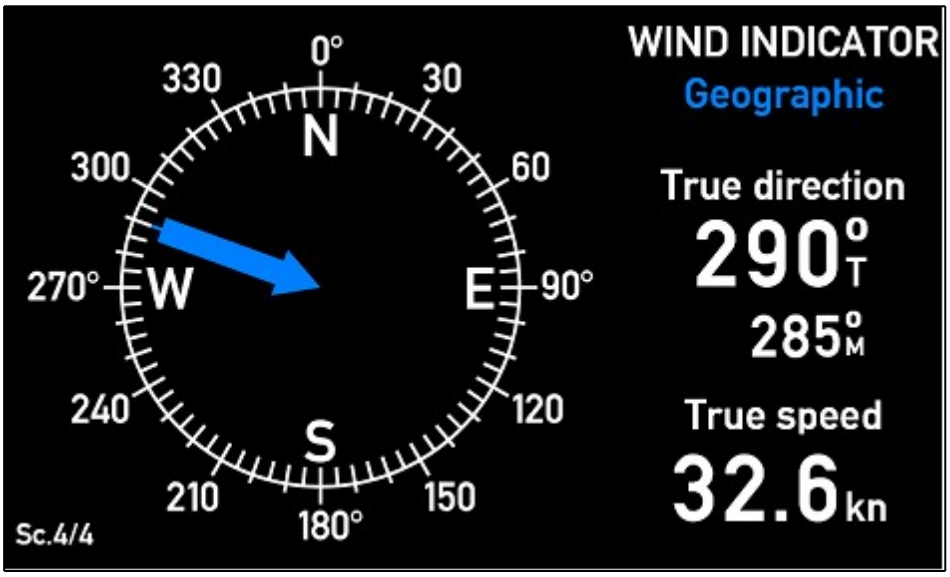
Screen 2	S2 Rel. wind



Screen 3 **S3 True wind**



Screen 4 **S4 Geo wind**



Description : **PTU and wind AFT, 4 screen**

Weather indications
Relative, true and geo. true wind
Geo. wind relative to Magn. and True N
Wind direction and wind speed (max 150 m/s)
One selectable headline for all screens
Selectable speed unit

Status :

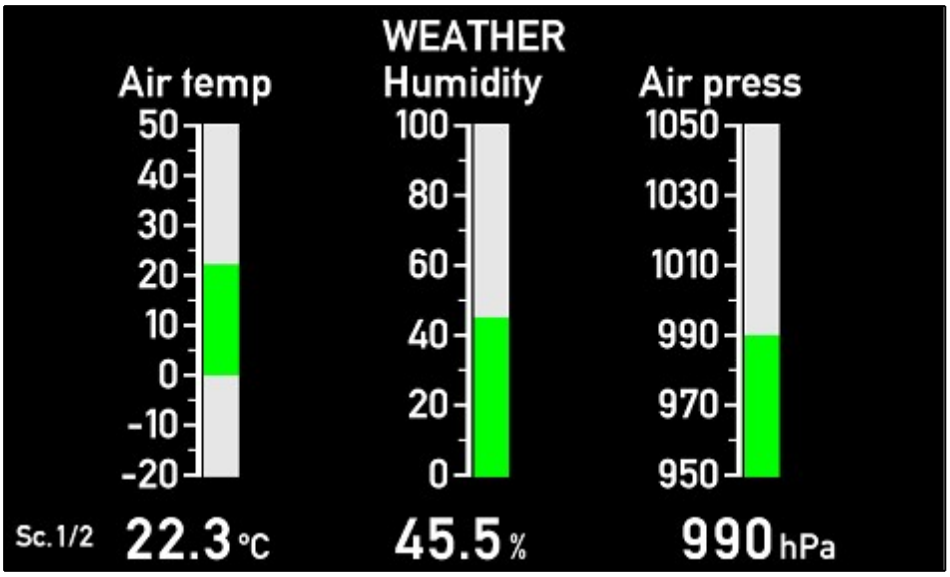
VI Notes :

VI-setup profiles (VS) for VI009

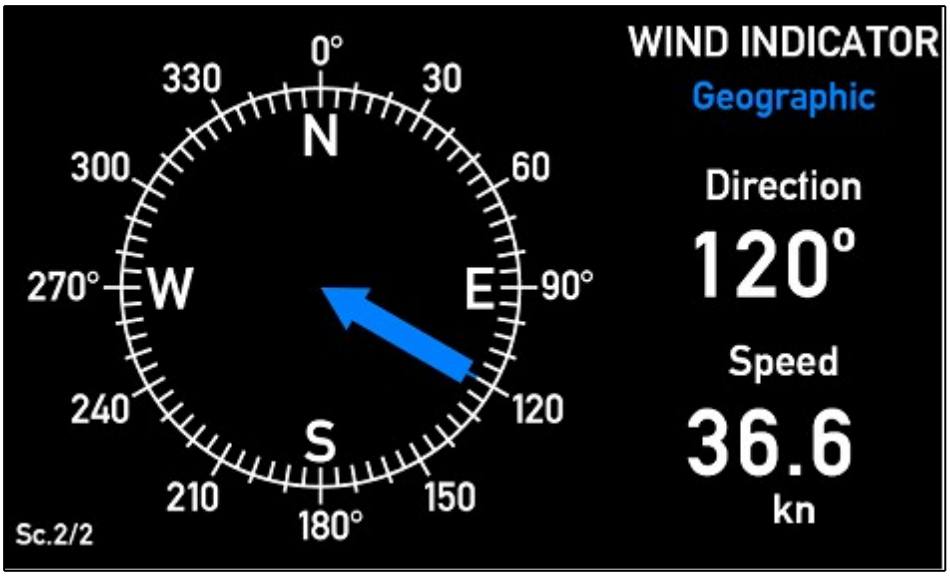
VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	**XDi-net repeater** Use this profile when all input data are available on XDi-net. XDi-net data are typically supplied from another XDi, setup to receive NMEA data via NX2 module and/or calculated and share data. With NX1 module on Slot 1 or 2: Supported for XDi-net to NMEA output: MWV1: Relative wind and True wind rel. ship MWD1: Geographic true wind (T+M) Output are selected and activated from menu !		
2	VS02 NMEA 1	**NMEA wind in/out** Requires NX2 extension module on Slot 2. Default NMEA connections: Relative wind sensor data at S2.2 RX/TX2 (RS485). Weather data from WXT534, true and Geographic true wind at input S2.1 or S2.3 Run NMEA auto input setup to configure Additional NX module might be required. NMEA output: MWV 1: Relative wind and True wind (repeated) MVD1: Geo. true wind (repeated) Must be activated from menu. Note: Wind direction is corrected for sensor offset.		
3	VS03 NMEA 2	**NMEA - Calculate wind** NX2 extension module is required on Slot 2. Default NMEA connection: Relative wind data at input S2.2 RX/TX2 (RS485). Weather data from WXT534 sensor at S2.1 or S.3. Speed and heading at input S2.1 or S2.3 are used to calculate true wind. Run NMEA auto input setup to configure Additional NX module might be required. NMEA output: MWV1 : Relative wind and True wind MWD1: Geographic true wind Must be activated from menu. Note: Wind direction is corrected for sensor offset.		

VI 010	**PTU, wind Geo**

Screen 1 **S1 Weather**



Screen 2 **S2 Geo. wind**



Description : **PTU and wind Geo, 2 screen**

Weather indications and presentation of wind speed and direction to geographic north. Used for land based applications.
Sensor must be alligned to north.
Selectable headlines
Unit fixed for weather presentation
Selectable speed unit for wind

Status :

VI Notes :

VI-setup profiles (VS) for VI010

VS No.	Name	Description	Status	Notes
1	VS01 XDi-net	**XDi-net repeater** Use this profile when input data are available on XDi-net. XDi-net data are typically supplied from another XDi, setup to receive NMEA data via NX2 module or share data. With NX1 module on Slot 1 or 2: Supported for XDi-net to NMEA output: MWV1: Relative wind Output are selected and activated from menu.		
2	VS02 NMEA 1	**NMEA0183 in/out** Requires NX2 extension module on Slot 2. Default NMEA connections: Weather data from WXT534 sensor at S2.1 RS422 or S2.3 RS422. Relative wind sensor data MWV at S2.2 RX/TX2 (RS485). Run NMEA auto input setup to configure NMEA output: MWV 1: Relative wind Must be activated from menu. Note: Wind direction is corrected for sensor offset.		