NX Wind pack

- Instrument -

Installation and Operation Manual

English
Part specification

Items delivered with the instrument

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Registering this product

Once you have checked that you have all the listed parts, please take time to fill in the warranty document and return it to your national distributor.

By returning the warranty card, it will assist your distributor to give you prompt and expert attention. Keep your proof of purchase. Also, your details are added to our customer database so that you automatically receive new product catalogues when they are released.

Warranty conditions see 12.
1 Installation

- The installation includes 6 major steps:
  1. Read the installation and operation manual.
  2. Plan where to install the transducers and instruments.
  3. Run the cables.
  4. Install the transducers and instruments.
  5. Take a break and admire your installation.
  6. Learn the functions and calibrate your system.

Before you begin drilling ... think about how you can make the installation as neat and simple as your boat will allow. Plan where to position the transducers, WSI-box and instruments. Think about leaving space for additional instruments in the future.

- A few ”do nots” you should consider:
  - Do not cut the cables too short. Allow extra cable length at the WSI-box so it can be disconnected for inspection without having to disconnect all attached cables.
  - Do not place sealant behind the display. The instrument gasket eliminates the need for sealant.
  - Do not run cables in the bilge, where water can appear.
  - Do not run cables close to fluorescent light sources, engine or radio transmitting equipment to avoid electrical disturbances.
  - Do not rush, take your time. A neat installation is easy to do.

- The following material is needed:
  Wire cutters and strippers.
  Small Philips and small flat head screw driver.
  Hole saw for the instrument clearance hole 63 mm (2½”).
  5 mm (¼”) drill for the mounting holes.

If you are doubtful about the installation, obtain the services of an experienced technician.
1.1 Installing the instrument

- Place the adhesive drill template on the desired location for the instrument. Drill the 2 holes using a 5 mm (1/4") drill for the two pin bolts. Use a 63 mm (2½") hole saw to machine the clearance hole for the instrument connection socket. Remove the template.

- Screw the two pin bolts to the instrument
- Put the instrument in place
- Screw the two nuts from the back

**Note! The two nuts must just be tighten by hand only**

- Run the Nexus Network cable from the WSI-box to the instrument.
- If you want to cut the Nexus Network cable to length, disconnect 4-pole jack plug and cut the cable. Peel off about 35 mm (1.4") of the cable insulation. Remove about 6 mm (1/4") from the 3 isolated wires (the 4th wire is an earth / screen). Attach the 4 cable protectors to the wires using a pair of flat pliers.
- Connect the 4 cable protectors to the 4-pole jack plug as shown. Apply silicon paste on all locations as shown.

**Note: Must be done to avoid corrosion.**
Apply silicon paste to the instrument connection pins at the back of the instrument. Press the jack plug onto the instrument pins. Press the cable in to the cable leads.

Mount the connection back cover with the screw.

1.1.1 Installing instrument to the WSI-box

All instruments are connected directly to the Nexus Network. They all use the same colour coded 4-pole jack plugs. (For instrument installation, see 2.2).
1.2 Installing the WSI-box
Remove the WSI-box cover from the base plate by removing the screw. Drill the 3 screw holes using a 2.8 mm (0.11”) drill. Mount the WSI-box using the 3 mounting screws.

Apply silicon paste on the screw terminal. Connect the 8 m Nexus Network cable supplied with cable protectors to the WSI-box on pins 13, 14, 15, and 16. Match the colour codes for each wire.

1.3 Installing the Wind Transducer

1.3.1 IMPORTANT Installation information!

BEFORE placing the wind transducer on the mast, a pairing procedure must be done! See chapter 3

1.3.2 Location
The transducer should be mounted on a horizontal surface in the mast head. If the masthead is not horizontal a shim has to be added. A 15 shim for Seldén masts is available (art.no 67400-15).

1.3.3 Mounting in the mast head
The transducer permits any type of horizontal mounting angle.

Mount the unit by directing the pipe (1) down and backwards in the bracket (2). Secure the nut (3) towards the attachment BY HAND (tools can be needed when demounting). Attach the security clamp (4) behind the nut.
1.3.4 Mounting the wind transducer step by step

1. Mark the mounting holes using the bracket as a template
2. Drill the three mounting holes using a 3.2mm drill

3. Mount the bracket with the three supplied screws
4. Insert the transducer into the bracket from front to back

5. Tighten the lock nut by hand only (do not use any tool)
6. Attach the security clamp
2 Connection to other Nexus systems

A NX system is fully compatible with other Nexus Network system such as NX2. If you want to connect the NX system to a NX2 system, you have to move the connection of the log and depth transducers to the WSI box. Note that a 200kHz depth transducer must be used. The 200kHz transducer is recognized by the colour of the leads that should be blue, black and screen. If your existing depth transducer has other colours of the transducer leads, it has to be changed. 200kHz transducers are available for all types of Nexus through hull fittings.

The Nexus network cable of the NX system may be connected at any location in the existing Nexus system. That is normally at the NX2 Server but if it is more convenient, you may connect the NX Network cable to any existing NX2 instrument.

3 Pairing procedure of wind transducer

When all instruments have been installed, a pairing procedure between the wireless wind transducer and the WSI unit must be made to introduce it to your specific NX network system. This is how you do it:

a. **Make sure the wind transducer is fully charged!**
   If the wind transducer has been stored in a dark place for a long time, you must first charge it by exposing the solar cell for sun light some hours before use.

b. **Pairing!**
   Hold the wind transducer within 2m from the Wireless WSI unit, and then press the INIT button (through the hole in the bottom of the battery lid) by use of the “pin”.
   
   If the battery lid is open, you may see the LED. The built in LED will flash 2 times then lit for 2s, before it is turned off. Your Nexus system is now ready for use.
   If the pairing of some reason did not work, the LED will flash a third time. You should then release the WSI-box airing, see below!
4 Re-initialization of the wind transducer

To release the Wind transducer and re-initializing it, press and hold the INIT button for 5s.
The wind transducer can then be re-initialised again to the same, or to any other WSI-box as described above.

5 Maintenance!

If you have been using the Wireless wind for several seasons, you may need to change the rechargeable cells.

Use Nexus original NiMh cells.

IMPORTANT! Do not change the rechargeable cell in strong light! If needed, cover the solar cell with your hand while changing cells!

Open the battery lid and remove the old cell from the connector, install the new cells. Return the used Cells to waste collection!

6 Change transducer or WSI-box / Release the pairing

If the wireless transducer or the WSI box has to be exchanged, WSI-box pairing has to be released. To release the WSI-box, there are two alteratives:

A From a NX Sea Data instrument
1. Press and hold the SET button for two seconds
2. Press the PLUS button until the text C15 is showed
3. Note the value for C15.
4. Press SET (short) and enter the value 99.9 using MINUS, PLUS and PAGE.
5. Press SET.
6. The WSI-boxen has now released the pairing and you can now enter the value you noted under point 3 again
7. Press PAGE followed by SET to exit the setting mode

B From a NX Wind instrument
1. Press and hold the SET button for two seconds
2. Press the PAGE button until the text C50 is showed
3. Press the PLUS button until the text C53 is showed
4. Note the value for C53 (normally 1.70).
5. Press SET (short) and enter the value 1.99 using MINUS, PLUS and PAGE.
6. Press SET.
7. The WSI-boxen has now released the pairing and you can now enter the value you noted under point 4 again
8. Press PAGE followed by SET to exit the setting mode

**Release the pairing of the wind transducer**
To release the Wind transducer and re-initializing it, press and hold the INIT button (see picture on previous page) for 5s. Use the supplied initialization pin.
7 First start (only in a Nexus Network)

7.1 Initialising the instrument
At power on, the instrument will perform a self test. The display will first show all segments, then the software version number and the Nexus Network ID number.

At first power on after installation, you will be asked to press the SET button key [PrS KEY]. This will give the instrument a logical ID number on the Nexus Network.

To initialise the instrument, press SET on all installed digital instrument, one at the time but only after the instrument show OK.

Note: Always wait for the text "Init OK" to be displayed, before you press SET on the next instrument!

The Server automatically gives the first unit ID number 16, then 17 and so on. The order in which you press SET is the same order as the instruments will be given a logical ID number on the Nexus Network.

The example shows that the instrument version number is 1.00 and the given logical ID number is 16.

7.2 Re-initialising the instrument
If two instruments by mistake have the same ID number, this can cause disturbance and block the information on the Nexus Network.

To re-initialise the instrument, press MINUS and PLUS together during the power up sequence when version and ID numbers are displayed.
8 Operation

8.1 How to use the push buttons

CLEAR
A press on CLEAR, clear digits, cancel alarms or resets the counters.

MINUS
A press on MINUS moves to the next sub-function. In edit mode it decreases to the previous digit.

PAGE
A press on PAGE toggles the analog scale. The PAGE button is also used to move the cursor when in edit mode.

PLUS
A press on PLUS moves to the previous sub-function. In edit mode it increases to the next digit.

SET
A press on SET unlocks a digit to access edit mode. When unlocked, the digits are 'active' (flashes) and can be edited by pressing MINUS, PLUS and PAGE.
8.1.1 Lighting

1. Press and hold PAGE 2 sec

2. Select Light Level with PLUS

3. Set light level with SET

8.2 Main function

Top data is what should be displayed as the top function, this is a function that is selected in the set-up for the instrument and normally it is selected once and then it is not changed. The two options are:

[AWA] (Apparent Wind Angle)
[TWA] (True Wind Angle), requires a log transducer.

To change between these functions, see C12, 9.1.2.

8.3 Analogue function

Wind scale is showing +/- 180° wind angle (5 degree / segment).

The text [APP = apparent] or [TRU = true] is displayed when PAGE is pressed. For closed hauled function, see setting C20.

TWD 360

When a compass or GPS is connected to the Nexus Network, the text TWD 360 display shows True Wind Direction (geographical).

To select Compass, See 9.1.7
8.4 Sub-functions
Select sub-function with PLUS or MINUS.

WIND

8.4.1 Apparent Wind Speed [AWS]
The text [AWS] (Apparent Wind Speed) and its value is displayed below.
The text [AWS] is toggled with the text [KTS] (KnoTS), [M/S] (Metres/S) or [BF] (Beaufort) depending on unit selected.

8.4.2 True Wind Speed [TWS]
The text [TWS] (True Wind Speed) and its value is displayed below.
The text [TWS] (True Wind Speed) is toggled with the text [KTS] (KnoTS), [M/S] (Metres/s) or [BF] (BeauFort).

8.4.3 Velocity Made Good (VMG)
The text [VMG] (Velocity Made Good) is displayed with the actual boat speed towards or against the Wind.
The water speed information from the log transducer is needed. The speed information can be taken from the log transducer or from Nexus Network. VMG = 0.0 knots when the true Wind angle is perpendicular to the boat.

8.4.4 Boat speed
The text [BSP] (Boat Speed) and its value is displayed below.

8.4.5 Start up mode
Your favourite function will automatically be displayed after power on.
Press both PAGE and SET to "park" the displayed function. The display will flash once to confirm that you have "parked" the function.
8.5 More functions in a Nexus Network

When connected in the Nexus Network, the following additional functions will be added:

Count down display (race timer)
TWD (True Wind Direction)
Use GPS as reference for TWS, TWA and TWD instead of water speed.

8.5.1 Count down display

If you are using the race timer on the Multi or Log instrument you will have a graphical 60 second countdown timer “popping up” on this instrument.

Note, the race timer must be set to 5min or more!

In this example there is 45 second to start.

8.5.2 Geographic Wind direction (TWD)

To get this function, set Reference for Direction (See 9.1.7).

Text [TWD] is displayed shortly, then is the abbreviation for Wind directions displayed, [SSW], [NO], [WNW] etc. together with the numerical direction below. The graphic direction is also displayed by pressing PAGE one or more times until the display to the right is displayed together with the "pointer".

You may also check long term geographical Wind shifts by entering a "marker" at present Wind direction as a remainder.

The "marker" will stay until power off or by clearing the function.

A Wind shift of 5° will be easy to detect after hours of sailing.

Select function [TWD 360°] with PAGE, and when the text [TWD] is flashing press SET.

The "marker" is now set. When there is a constant Wind shift, you will see this "marker" as a slow blinking reminder of the origin Wind direction.
9  Calibration
To get the most out of your Nexus instrument, it is important to carefully calibrate the instrument. The calibration values are stored in a non volatile memory.

To access calibration page, press and hold SET more than 2 seconds. To select a calibration code, press MINUS, PLUS and PAGE as required. To return to normal operation PAGE, press SET when the text return (RET) is displayed.

The calibration routines are divided into two groups:

C10 - C19 = USR, User settings.
C50 - C62 = WND, Wind transducer settings/calibrations.

To change a calibration value, press SET. To select calibration value, press MINUS, PLUS and PAGE as required. To lock the selected value, press SET.

9.1  User settings, C10
To return to normal PAGE, press SET when the text [rET] is displayed.

9.1.1  Select the dampening, C11
The dampening will affect Wind angle, Wind speed, boat speed and VMG. Dampening is between d0 (0s) and d9 (1’20). To change the dampening, press SET and change with PLUS or MINUS and enter with SET. Note, the damping is local and will affect this instrument only.

9.1.2  Select main information, C12
Select function to be display at the top left of the LCD display.

AWA  Apparent Wind Angle.
TWA  True Wind angle by the use of log transducer.

9.1.3  Beep when a key is pressed, C13
Setting On will make a beep at every key press, while OFF is silent.
9.1.4 Select unit for BSP/VMG, C14
Unit for VMG, knots (KTS), km/h (K/h) or miles/h (m/h)

9.1.5 Calibration of log transducer, C15
If the Wind is installed with WSI-box or NX2 Server where
the log is already calibrated, no further calibration is
needed.

Calibration value for speed and distance (1.00 - 1.99)

Check calibration in your Nexus log and enter the same value.

9.1.6 Reference for Speed, water or GPS, C16
Select speed reference. Log transducer, Nexus or SOG

BSP - Log signals direct in to the Wind instrument
NEX – Boat speed information comes via the Nexus Network
(Server or WSI-box)
SOG – SOG from GPS is used as speed reference.

9.1.7 Reference for Direction, C17
Select direction reference. Compass transducer, COG or Static

OFF – No direction reference is used
HDC – Compass heading comes via the Nexus Network
COG – COG from GPS is used as direction reference
STA – Static mode, when used as fixed reference at your
boat club.
Note! [COG] as reference will only operate properly when the boat is doing speed over ground. If COG is used and the boat is lying still, the TWD will show random readings.

9.1.8 Where is the wind Tx connected, C18
[On] = Set to On if a Wind transducer is connected at the Wind instrument with a cable.
[OFF] = Set to OFF if a Wireless Wind transducer is used or the Wind transducer is connected at the NX2 Server.

9.1.9 Demo mode selection, C19
The Wind instrument has a built in demonstration PAGE. All values are simulated in this PAGE. It is convenient to learn the functions of the instrument by using this PAGE.

Every 7th second the text DEM will appear to alert you that the demo PAGE is selected.

9.1.10 Closed hauled PAGE, C20
The Wind instrument can be set to use the closed hauled page. Factory setting is OFF.

When this page C20 is ON, the LCD will show this image when PAGE is pressed!

The scale can be altered between 60° and 180° to get more accurate readings. At scale 180° each sector represents 5° and at scale 60° each sector represents 1\(^\frac{2}{3}\)°.

MIX 180° The text MIX 180° means that both APP and TRUE Wind angle is displayed in scale 180°.
MIX 60° The text MIX 60° means that both APP and TRUE is displayed in scale 60.
9.2 Wind Settings, C50

To return to normal PAGE, press SET when the text C50 [rET] is displayed.

C51 not used!

9.2.1 Unit for Wind speed, C52

Unit for Wind speed [KTS] for (KnoTS), [M/S] for (Metres/S) and [BF] for (Beaufort).

9.2.2 Wind speed calibration, C53

This setting is for calibration of wind speed. For a standard Twin-Fin transducer, the value should be 1.70. For Mono-Fin transducers, the calibration value should be 1.50.

9.2.3 Adjustment of Wind angle, C54

Mast top unit misalignment adjust value or the so called "A-fault", makes it possible to adjust any horizontal angle. Example: If the Wind angle is +4° when you sail/drive the boat straight into the Wind, set the calibration value in C54 to 356°.

9.2.4 Calibration for the Wind transducer, C55-C62

Note, this setting only apply to non Wireless transducers. Wireless transducers are calibrated and the values are stored in the wind transducer.

In channels C55 to C62 you set the calibration values for the mast top unit. Each mast top unit is individually calibrated for best accuracy. See the separate Wind calibration certificate supplied with each mast top unit. Each of the inter-cardinal directions are calibrated.

C55 000 000°
C56 045 045°
C57 090 090° Set the calibration value according to the provided calibration certificate
C58 135 135°
C59 180 180°
C60 225 225°
C61 270 270°
C62 315 315°
10 Maintenance and fault finding

10.1 Maintenance

- To clean the instrument, use only mild soap solution and rinse with water.
- Do not use detergents or high pressure washing equipment.
- At least once a year, check all your connections and apply additional silicon paste at each connection point.
- Always use the instrument cover for protection, when not in use.
- Storing transducers and instruments when not in use for longer periods: It is advisable to remove the instruments and transducers, and store them inside the boat or at home in room temperature, if possible.

10.2 Fault finding

Before you contact your NEXUS dealer, and to assist your dealer to give you a better service, please check the following points and make a list of:

- All connected instrument and transducers, including their software version numbers.
- Instrument software version number.
- Nexus Network data bus ID numbers for each instrument (displayed at power up).

10.2.1 General

In most cases, the reason for faults in electronic equipment is the installation or poor connections. Therefore, always first check that:

- Installation and connection is made per instructions for instrument and transducers, (see chapter 1).
- Screw terminals are carefully tightened.
- No corrosion on any connection points.
- No loose ends in the wires causing short cuts to adjacent wires.
- Cables for damage, that no cables are squeezed or worn.
- Battery voltage is sufficient, should be at least 10 V DC.
- The fuse is not blown and the circuit-breaker has not opened.
- The fuse is of the right type.
- Two instruments do not have the same ID number, (see chapter 7.2).
- Check the following important setting: C18

10.2.2 Fault - action

1. Wind: No reading [ --- ]
   - If inaccurate Wind data is received, check the connections (separate through deck connection or below decks connection), are properly made.
   - Make sure the transducer is aligned correctly, (see C54, 9.2.3).
   - Check the setting of C18.

2. Speed and distance functions: No reading [ --- ]
   - C16 should be BSP. See 9.1.6.
• If you have a voltmeter available, you can check the condition of the transducer. When measuring with voltmeter make sure everything is connected, that the power is on and make sure the paddle wheel is rotating.
• At the back of the instrument, measure between pin 4 and ground.
• When not rotating, the value should be fixed at either about 0 or 12 V DC. When rotating very slowly, by hand, the value should flip between 0 and 12 V DC. When rotating faster, the value should average around 6 V DC.

**Irregular values:** Check the speed damping (SEA), (see C11, 9.1.1).

### 10.2.3 Error messages

The following error messages can appear on the display:

- **ERROR 2** Nexus Network is missing, check colour coded connections
- **ERROR 3** No Network data received within a given time.
- **ERROR 10** Range error caused by bad format, e.g. 430°.
- **ERROR 11** Remote command that can not be performed.

If other error messages than the above appears on the Wind instrument, contact your NEXUS dealer.

### 11 Specifications

#### 11.1 Technical specifications

- **Dimensions:** 113 x 113 x23 mm (4.3x4.3 inch).
- **Instrument cable:** 8 m (26 ft).
- **Power supply:** 12V DC (10-16V). The instruments are polarity protected
- **Power consumption at 12V:** 0,08W with maximum lighting 0,8W.
- **Temperature range:** Storage:-30°to +80°C (-22°to +176°F)
  Operation: -10° to +70°C(14°to +158°F)
- **Weight:** 260 gram (9.17 oz).
- **Enclousure:** Water proof

**CE approval**
The products conforms to the EMC requirements for immunity and emission according to EN 50 08-1.
12 Warranty

WARRANTY

GENERAL
All our products are designed and built to comply to the highest class industry standards. If the products are correctly installed, maintained and operated, as described in the installation and operation manual, they will provide long and reliable service. Our international Network of distributors can provide you with the information and assistance you may require virtually anywhere in the world.
Please read through and fill in this warranty card and send it to your national distributor for product registration.

LIMITED WARRANTY
The warranty covers repair of defective parts due to faulty Manufacturing and includes labour when repaired in the country of purchase. The warranty period is stated in the product manual, and commences from the date of purchase. The above warranty is the Manufacturer's only warranty and no other terms, expressed or implied, will apply. The Manufacturer specifically excludes the implied warranty of merchantability and fitness for a particular purpose.

CONDITIONS
• The supplied warranty card and receipt with proof of purchase date, must be shown to validate any warranty claim. Claims are to be made in accordance with the claims procedure outlined below.
• The warranty is non-transferrable and extends only to the original purchaser.
• The warranty does not apply to Products from which serial numbers have been removed, faulty installation or incorrect fusing, to conditions resulting from improper use, external causes, including service or modifications not performed by the Manufacturer or by its national distributors, or operation outside the environmental parameters specified for the Product.
• The Manufacturer will not compensate for consequential damage caused directly or indirectly by the malfunction of its equipment. The Manufacturer is not liable for any personal damage caused as a consequence of using its equipment.
• The Manufacturer, its national distributors or dealers are not liable for charges arising from sea trials, installation surveys or visits to the boat to attend to the equipment, whether under warranty or not. The right is reserved to charge for such services at an appropriate rate.
• The Manufacturer reserves the right to replace any products returned for repair, within the warranty period, with the nearest equivalent, if repair within a reasonable time period should not be possible.
• The terms and conditions of the warranty as described do not affect your statutory rights.

CLAIMS PROCEDURE
Equipment should be returned to the national distributor, or one of its appointed dealers, in the country where it was originally purchased. Valid claims will then be serviced and returned to the sender free of charge.
Alternatively, if the equipment is being used away from the country of purchase, it may be returned to the national distributor, or one of its appointed dealers, in the country where it is being used. In this case valid claims will cover parts only. Labour and return postage will be invoiced to the sender at an appropriate rate.

DISCLAIMER
Common sense must be used at all times when navigating and the Manufacturer's navigation equipment should only be considered as aids to navigation.
The Manufacturer's policy of continuous improvement may result in changes to product specification without prior notice.
WARRANTY CARD
TO BE RETURNED TO YOUR NATIONAL DISTRIBUTOR

OWNER:
Name:__________________________________________
Street:__________________________________________
City/Zip Code:___________________________________
Country:________________________________________

Product name: Serial number:

A   B   C   1   2   3   4   5   6   7

____________________________________

____________________________________

____________________________________

____________________________________

____________________________________

Date of purchase:______________ Date installed:______________

Dealers stamp:

☐ Tick here if you do not wish to receive news about future products