

# NX Wireless Wind transducer set



**Installation and Operation Manual**  
**English**







**Edition: April 2007**

# Mounting instruction Tri-transducer

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# NX Wireless Wind transducer

## *Installation Manual*

Thank you for choosing a Nexus product. Through this manual we would like to help you to install your new Nexus product. Please read through this manual carefully before starting your installation. This unique wind transducer provides both wind speed and wind angle relative the boat. If a Speed transducer is connected to the system, true wind speed and angle is computed. In addition, a compass or GPS antenna may be used to compute true wind direction relative North

This transducer set can be used in any Nexus Network system. It may even be installed in a Nexus or NX2 system substituting the standard wired transducer.

### **1 IMPORTANT Installation information!**

**BEFORE placing the wind transducer on the mast, a pairing procedure must be done!**

#### **1.1 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).

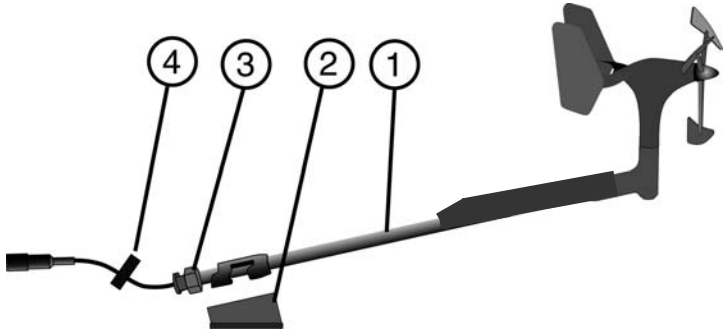
### **2 Part specification**

- 1# Mounting instruction
- 1# Warranty card
- 1# Bracket
- 1# Representation list

### **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.



### 3.1 Mounting step by step

1. Mark the mounting holes using the bracket as an 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



## 4 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 batter 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!



## 5 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.

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## 6 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!

## **7 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 alternatives:

### **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

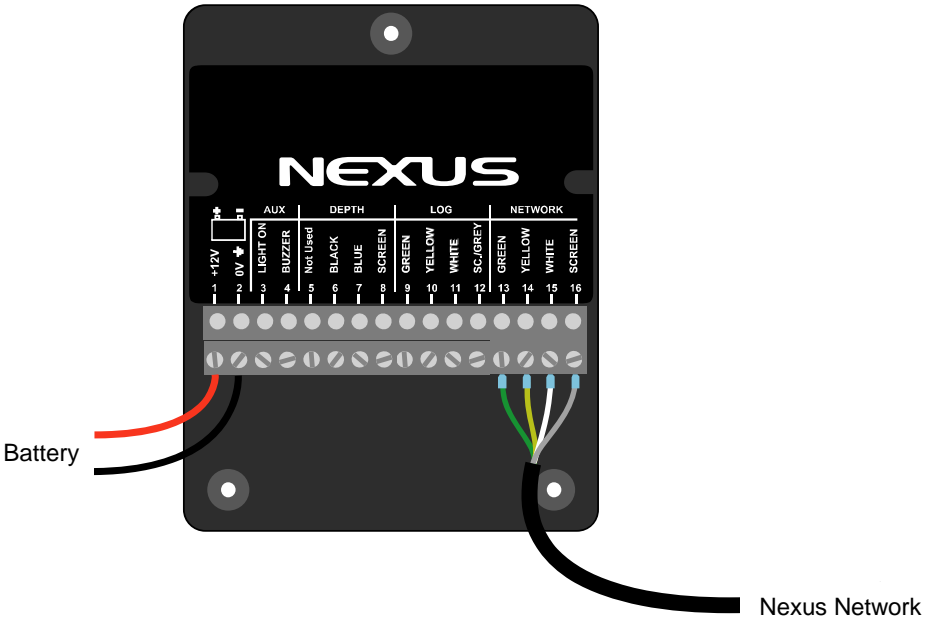
### **B From a NX Wind instrument**

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.

## 8 Connection to the system



### Note

If the WSI-box is connected to a Nexus Network, the WSI-box will be powered via that cable and there is no need to connect the red and black power cables!

## 9 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

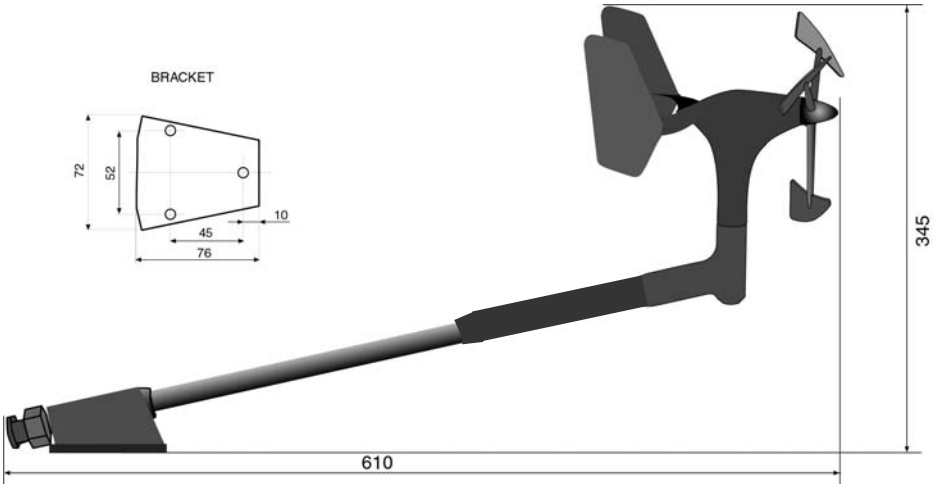
**IMPORTANT!** Do not change the rechargeable cell in strong light! If needed, cover the solar cell with your hand while changing cells!

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

### 10 Specifications

Power consumption	0,24 W
Current consumption:	20mA @12V
Wind speed range	0.9-90 knots, 0.5-50 m/s
Angle Accuracy	Better than $\pm 2^\circ$
Speed Accuracy	$\pm 5\%$
Temperature range	Operating -5°C to +70°C Storage -20°C to +80°C
Weight	260 g.

#### 10.1 Dimensions:



## 11 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.

File id:

## 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
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Date of purchase: \_\_\_\_\_ Date installed: \_\_\_\_\_

Dealers stamp:

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



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