

Twin Fin

- Transducer -



Installation and Operation Manual
English



TWIN FIN



This manual is written for NX2 Twin Fin Wind transducer 1.00
Edition: March 2007

NX2 Wind transducer

Installation Manual

Thank you for choosing a NX2 product. Through this manual we would like to help you to install your new NX2 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

1 Installation

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).

The wind transducer is using optical sensor technology performing digital PWM output. This technique provides high accuracy angle and wind speed measurements.

2 Part specification

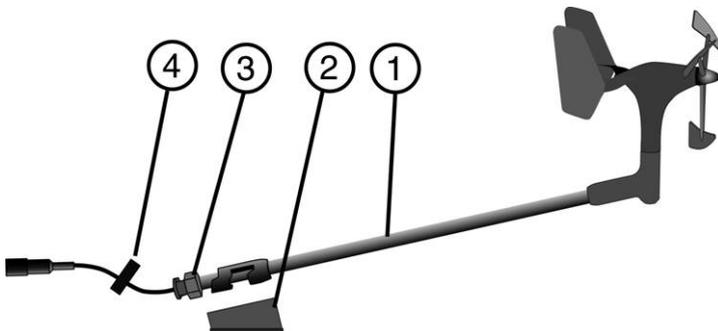
- 1# Mounting instruction
- 1# Warranty card
- 1# Calibration certificate
- 1# Wind transducer with 25 m cable
- 1# Bracket
- 5# Cable protectors (0,25 mm)
- 1# Representation list

3 INSTALLATION

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.

The wind transducer connects to the Nexus Server.



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



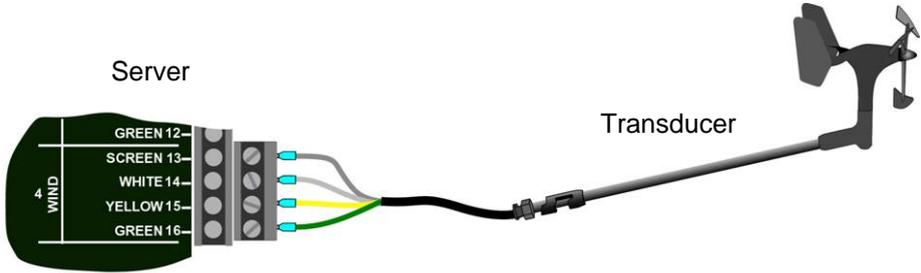
7. Connect the cable



4 Electric installation

4.1 Connections to the NX2 Server

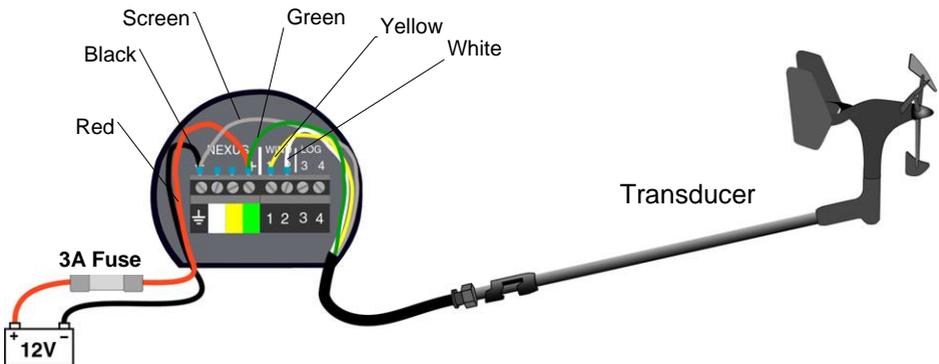
If you already have a Nexus Network i.e. a Server, it is more practical to connect the transducer to the Server due to the single instrument cable installation. **Note**, set C71 in Wind Data instrument to OFF (see Wind Data Manual)



4.2 Connections to a Wind Data instrument

The power cable is connected via a 3A fuse from the battery or at the boats fuse panel and direct to the instrument or Server. One red and one black power wire is included. **Note**, set the Wind Data instrument to C71 On (see Wind Data Manual)

Always connect a 3 AMP fuse between Power supply and instrument.



5 Calibration

In order to get correct readings on your instruments, the transducer has to be calibrated. There are three things that has to be done:

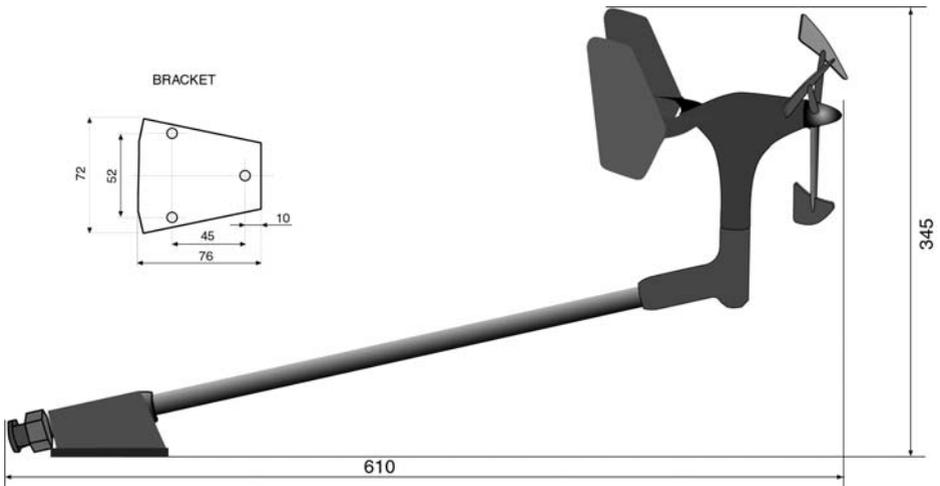
1. Enter the calibration values from the supplied calibration certificate into the codes C56 to C62. (C55-C62 in Wind Data)
2. Enter the misalignment of the transducer in calibration code C55. (C54 in Wind Data)
3. Make sure the calibration for wind speed in C54 is set to 1.70 (C53 in Wind Data)

For information of how to enter the calibration values, se the instrument manual.

6 Specifications

| | |
|----------------------|---|
| Transducer cable | 25 m |
| Power supply | 12V DC (10-16V) |
| 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. |

6.1 Dimensions:



4 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 Manufacturers 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 |
|-------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| _____ | <input type="checkbox"/> |
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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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