

NX WSI-box



Installation and Operation Manual
English





Edition: April 2007

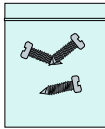
1 Part specification

Items delivered with the Server

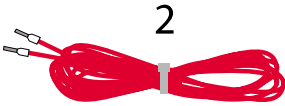
Qty.	Description	Reference
1	Nexus NX WSI-box	1
1	Power cable, red, 3 m (9 ft)	2
1	Power cable, black, 3 m (9 ft)	3
3	WSI-box mounting screws	4
1	Installation and operational manual	5



1



4



2



3



5

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 chapter 5.

2 Installation

- **The installation includes 6 major steps:**
 1. Read the installation and operation manual.
 2. Plan where to install the transducers, WSI-box and instruments.
 3. Install the transducers, then the WSI-box and instruments.
 4. Run the cables.
 5. 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 and large philips and small flat head screw driver
 - Hole saw for the instrument clearance of 63 mm (2½")
 - 2.8 mm (0.11") drill for the mounting holes
 - Plastic cable ties



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

2.1 IMPORTANT, location of the WSI-box

Mount the WSI-box on a dry, flat and vertical surface below deck with a minimum distance of 500 mm (20") to a radio receiving unit

and parallel with the Wind transducer to obtain maximum radio signal.

2.2 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.



Note: If the cable must be cut, it is recommended it is cut at the unmarked cable end, since a marked cable is easier to identify.

When all connections are made, use the cable straps as required. Mount the WSI-box cover using the mounting screws.

Your WSI-box installation is done!

2.2.1 Extra alarm buzzer

Art. no. 20081. The extra buzzer (105 dB at 15 cm, not water proof) can be mounted where you want a louder sound. The buzzer will sound as soon as any alarm function is activated in the Nexus Network.

Red wire to +12V from switch panel
Black wire to WSI-box pin 4 (BUZZER).

For connections, see next page

2.3 Connecting instrument lighting

The instrument lighting can be controlled from the boats general lighting switch.

Connect the wire between the electrical panel (instrument light switch) and WSI pin 3 (LIGHT ON).

For connections, see next page

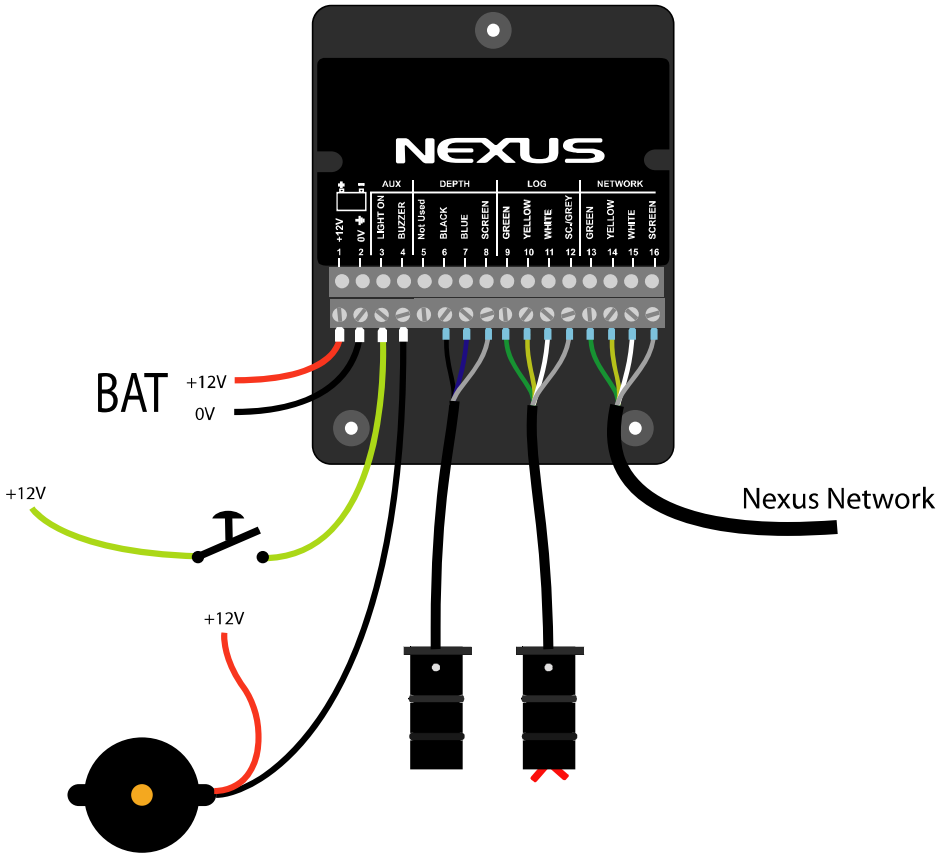
2.3.1 Log transducer

The log transducer is connected to pin 9-12 on the WSIbox

2.3.2 Depth transducer

The depth transducer is connected to pin 6-8 on the WSIbox

Note, only 200kHz transducer can be used!



Cross reference list for Log and depth transducer and Tri-ducer or Combi transducers

No.	Function	Sep log and depth	Tri-ducer or Combi
1	+12V Battery	Red	Red
2	0V battery	Black	Black
3	Light control	Users choice	Users choice
4	Buzzer	Black	Black
5	Not used	Not used	Not used
6	Depth A	Black	Black
7	Depth B	Blue	Blue
8	Depth Screen	Screen	Screen
9	+12V to Log Tx	Green	Red
10	Log signal	Yellow	Green
11	Temp. sensor	White	White
12	0V to Log Tx	Screen	Brown

3 Maintenance and fault finding

3.1 Maintenance

- At least once a year, check all your connections and apply additional silicon paste at each connection point.

3.2 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.
- WSI-box software version number.
- Nexus Network data bus ID numbers for each instrument (displayed at power up).

3.2.1 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 3).
- 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 10V 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 Instrument Manual).

4 Specifications

4.1 Technical specifications

Dimensions:	WSI-box: 110 x 65 x 30 mm.
Instrument cable:	8 m (26 ft).
Power supply:	12V DC (10-16V). The instruments are polarity protected
Power consumption at 12V:	WSI-box: 0,2W.
Temperature range:	Storage: -30°to +80°C (-22°to +176°F) Operation: -10° to +70°C(14°to +158°F)
Weight:	130 gram. (7.76 oz).
Enclosure:	Splash proof

CE approval

The products conforms to the EMC requirements for immunity and emission according to EN 50 08-1.

5 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:

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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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