

# Mounting instruction Nexus/Star log/temp transducer

## CONTENTS:

1. General
2. Part specification
3. Location of the paddle wheel transducer
4. installing the through-hull fitting
5. Connection to instrument/contacts
6. Calibration
7. Technical data
6. Warranty

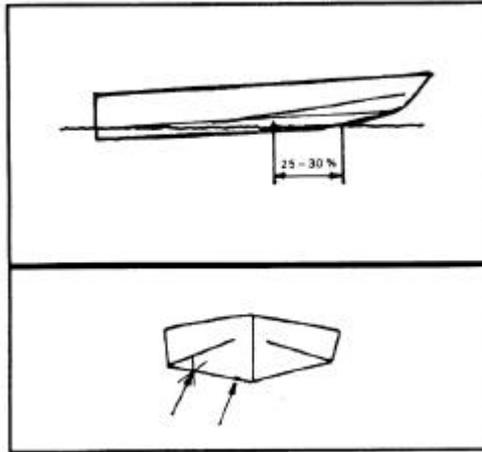
## 1 GENERAL

The log/temp transducer is an impeller transducer installed through the hull and designed to meet the requirements of owners of sailing crafts and power boats.

## 2 PART SPECIFICATION

- 1# Mounting instruction
- 1# Warranty card
- 1# Paddlewheel transducer
- 1# Dummy plug
- 1# Silicone grease
- 4# O-ring
- 1# Through-hull fitting with nut
- 1# Locking device
- 5# Extra cable protectors (0,25 mm)
- 5# Extra cable protectors (0,75 mm)

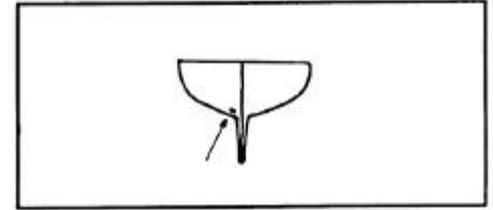
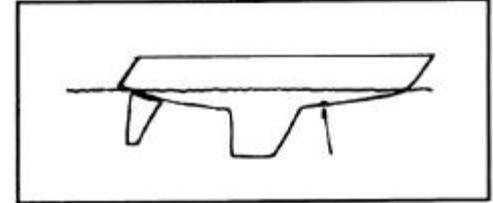
## 3. CORRECT LOCATION OF PADDLEWHEEL TRANSDUCER



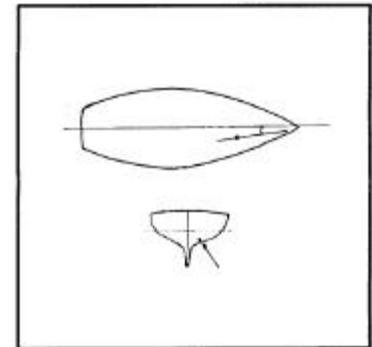
Generally the transducer should be placed as far forward as possible along the waterline length and close to the centreline.

**It is important that the transducer is always in the water, within the whole speed range of the boat.** Please note that the actual waterline length of fast power boats shortens considerably at high speeds. Therefore the transducer should be placed at 25-35% along the true waterline from the bow, when at full speed

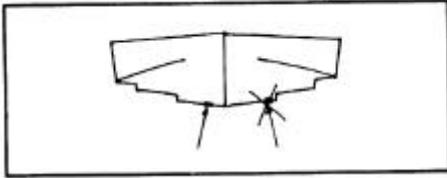
*Example:*



Sailboats with a fin keel must have the transducer located at least 25 cm but not more than 75 cm in front of the keel. It should be placed no more than 10 cm off the centreline.



On sailboats with a pronounced “V” in the hull, such as full-keel yachts, it might be favourable to angle the transducer slightly so that it aims at the bow, rather than directly parallel to the centreline. This will help balanced the passing waterflow measurement from one tack to another.



Avoid placing the transducer near the edge of sharp hull chines. Transverse waterflow in these areas can affect the accuracy of measurements.

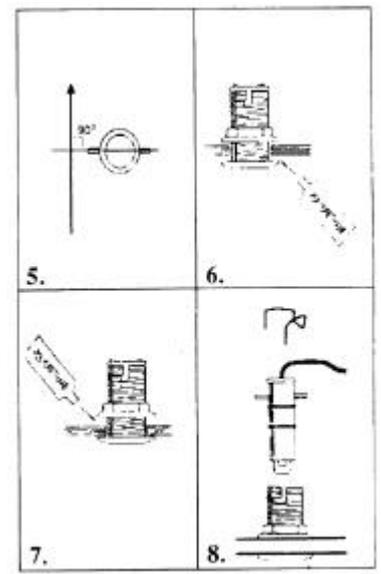
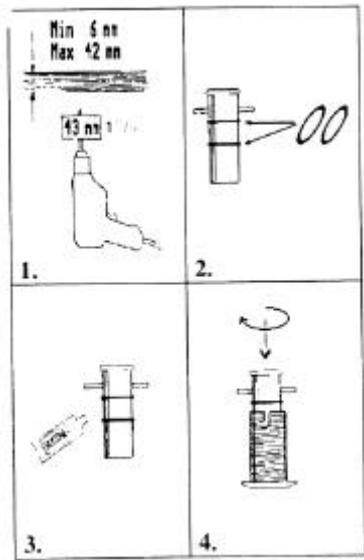
**If you have a questions about the location of the through-hull, contact your builder, yacht dealer, or other owners of similar boats for advice. Always remember to allow for accessibility from the inside of the yacht when determining the final location.**

#### 4. INSTALLING THE THROUGH HULL FITTING

1. Use a 43 mm (1 11/16”) hole cutter to cut through the hull. (See section 3 for correct location).
2. Slide both rubber O-rings on the dummy plug.
3. Generously apply the silicone grease to the exterior of the dummy plug.
4. Install the dummy plug in the through-hull

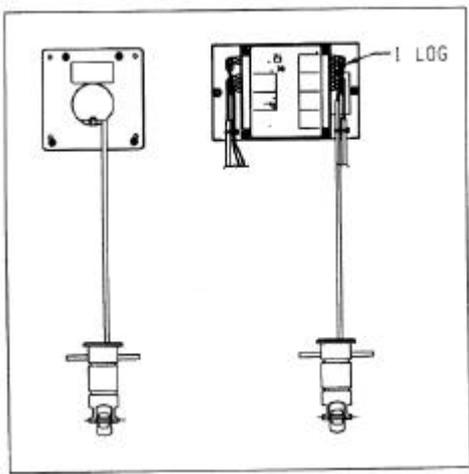
fitting. Use a slow twisting motion and be sure that is properly seated into the fitting.

5. With the dummy plug properly installed in the through –hull fitting, mount the fitting so that the handle is exactly at right angles (90°) to the boats centreline. (For pronounced V-hulls see section 3).
6. Apply the polyurethane sealing compound on the outer flange of the through-hull fitting and tighten the nut on the inside by hand.
7. When this outer sealant has cured, remove the nut and apply sealant on the inside. Tighten the nut again by hand.
8. Install the wire locking device onto the dummy plug /paddlewheel transducer.



## 5. CONNECTION TO INSTRUMENT/CONTACTS

The log/temp transducer connects to the Nexus Server or directly to the Nexus Speed Log.



The transducer cable is clearly marked with No 1 and the colours will correspond to input screw terminal on the Server.

If the 8 m transducer cable needs to be cut, use the extra cable protectors supplied. Press the protectors on to each wire with a pair of flat pliers.

## 6. CALIBRATION

Calibration is carried out in the Multi Control instrument or the speed log instrument (see manual).

## 7. TECHNICAL DATA

Dimensions:	Through-hull fitting 42 x 86 mm (1 5/8" x 3 3/8") Hull thickness min 6 mm (3/8"), max 42 mm (1 5/8")
Transducer cable:	8 m (26.2 ft)
Power supply:	12V DC (10-16V)
Power consumption:	0,06 W
Accuracy:	± 1%
Speed range	0.2-30 knots (depending on transducer type max. 90 knots)
Temperature range	Operating -10°C to +70°C Storage -35°C to +70°C

## 8 WARRANTY

The manufacturer gives a two year warranty against manufacturing faults or faulty components. The supplied warranty card together with a purchasing receipt must be shown if a warranty claim is made. The warranty does not apply to damage caused by careless handling, faulty installation nor for damage caused by not fusing the instrument according to the instructions. The right to change the specification is reserved by the manufacturer.