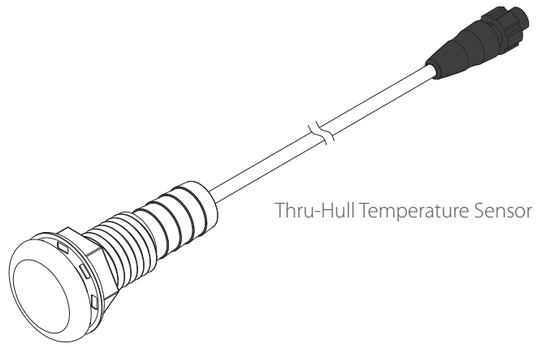
LOWRANCE
SIMRAD
B&G

Thru-Hull Temperature Sensor

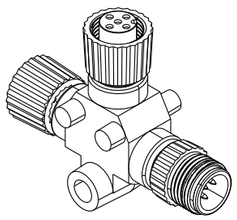
Installation Guide

988-10924-001

What's in the box

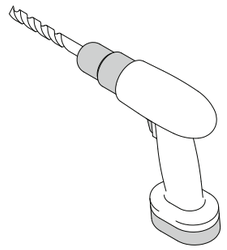


Thru-Hull Temperature Sensor



NMEA 2000 T-Joiner

Tools required



Drill with 3 mm (1/8") drill bit

Hole saw 27 mm (1-1/16")

Other parts required

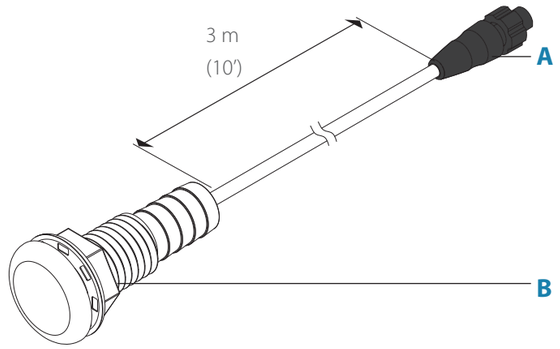
High quality marine grade above/ below waterline caulking compound

Cable ties (optional)

Overview

The Thru-Hull Temperature Sensor converts analog temperature data to NMEA 2000 data format.

⚠ ***You should read all of the installation instructions before proceeding. Decide where to install all components before drilling any holes in your vessel.***

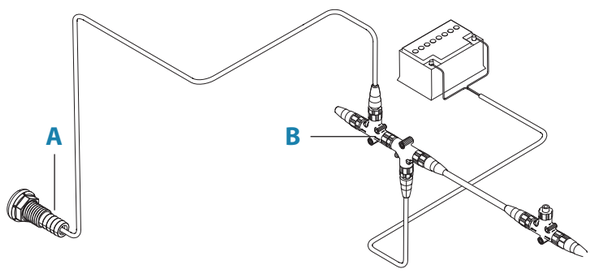


A NMEA 2000 connector

B Thru-Hull Temperature Sensor

Plan the installation

Example of installation

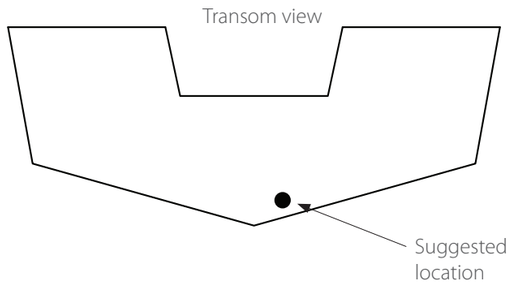


A Thru-Hull Temperature module

B NMEA 2000 CAN bus backbone (NMEA 2000, IEC61162-1/2)

Plan the installation

Example of location

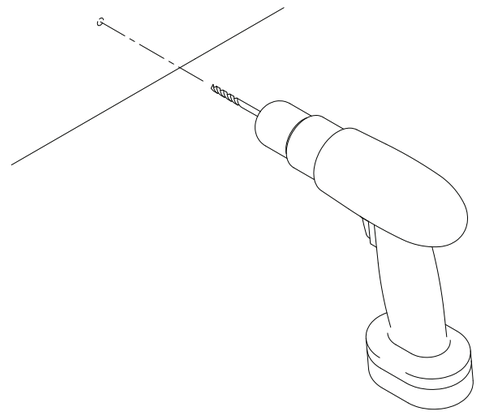


The Thru-Hull Temperature Sensor can be mounted in any location on the hull, the example shown here is for a transom mount.

Wherever you install it, make sure the temperature sensor will be in contact with the water at all times and that it does not interfere with the boat's trailer.

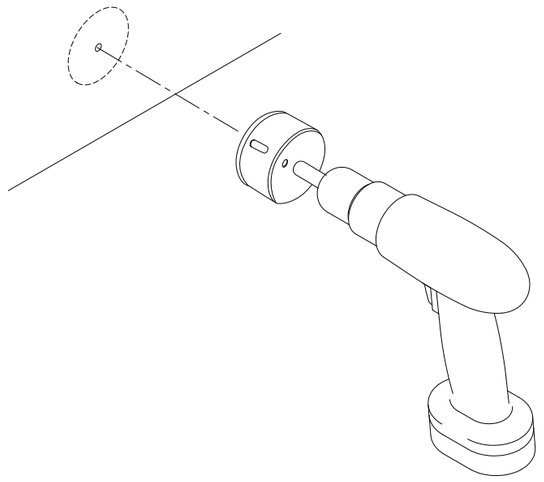
⚠ ***The maximum hull thickness for the Thru-Hull Temperature Sensor is 31 mm (1-1/4").***

Install the Thru-Hull Temperature Sensor



After you've determined the location for the Thru-Hull temperature Sensor, drill a 3 mm (1/8") pilot hole from the inside.

Install the Thru-Hull Temperature Sensor

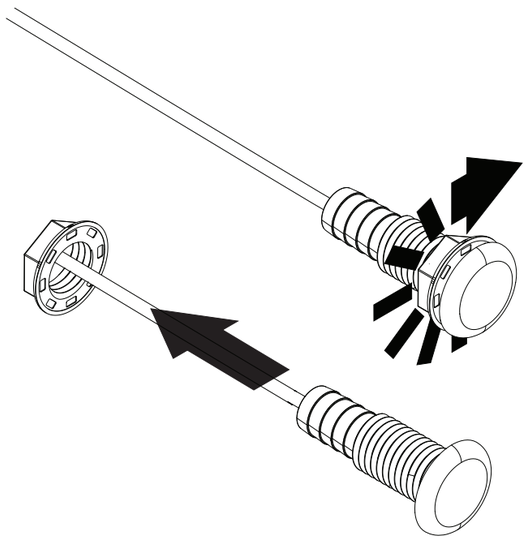


The Thru-Hull Temperature Sensor requires a 27 mm (1-1/16") hole. Using a hole saw, drill from the outside to prevent the gel coat from cracking on fiberglass boats.

⚠ ***Use eye and face protection when drilling the hole.***

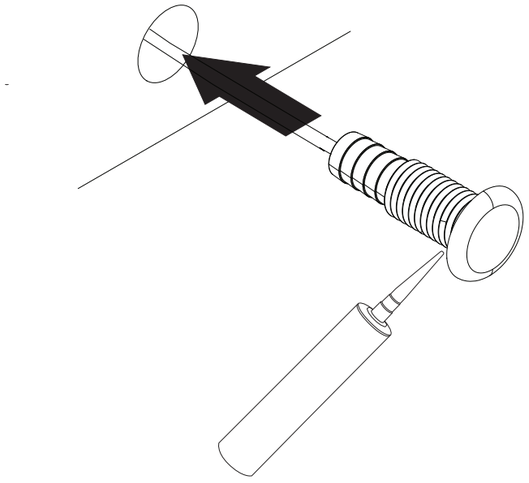
Afterwards, clean the area around the hole with detergent or alcohol. This will establish a good surface for the adhesive.

Install the Thru-Hull Temperature Sensor



Remove the nut from the sensor, cable and the red connector.

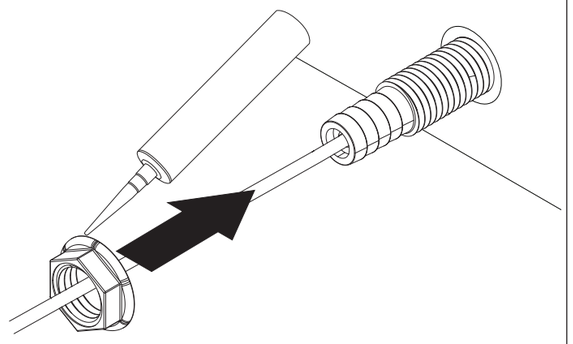
Install the Thru-Hull Temperature Sensor



Using a high quality, marine-grade above- or below-waterline sealant/adhesive compound, apply a 3 mm (1/8") bead of sealant around the lip of the housing.

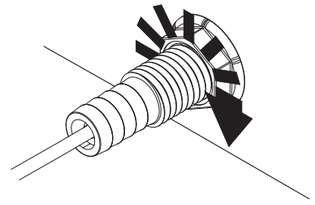
Then from the outside, pass the cable through the hole and push the housing with sealant into it. Use a twisting motion to squeeze out excess sealant. Remove excess sealant from the outside of the transom before it dries.

Install the Thru-Hull Temperature Sensor



On the inside of the hull, slide the nut over the back end of the sensor and add a 3 mm (1/8") bead of sealant around the edge of the hole on the inside.

Install the Thru-Hull Temperature Sensor



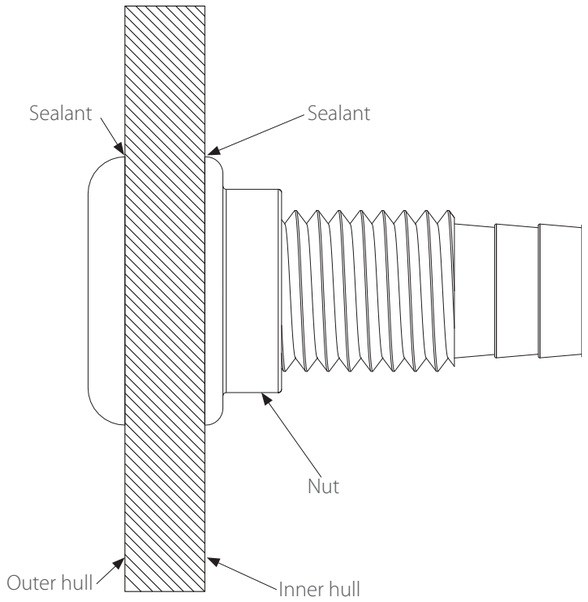
Hand-tighten the nut; be careful not to over-tighten. Remove excess sealant from the inside of the hull before it dries.

⚠ ***Do not use a wrench to tighten the nut.***

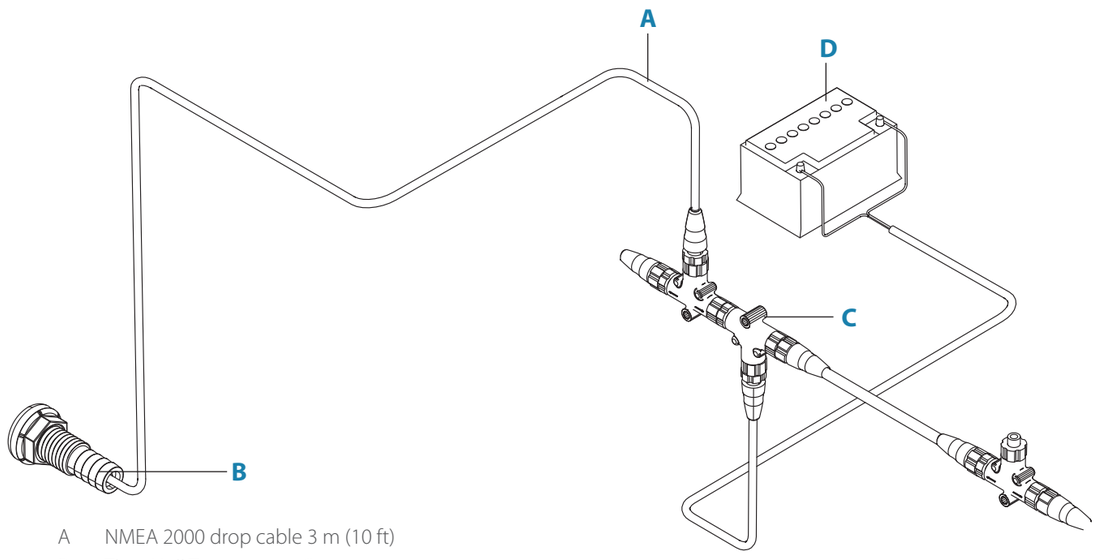
⚠ ***Check for leaks immediately. Check the boat for leaks again several times during the next 24 hours. If you notice any leakage at all, the sensor should be re-installed with a new coat of adhesive.***

Install the Thru-Hull Temperature Sensor

Cross section of the hull showing Thru-Hull Temperature Sensor installed

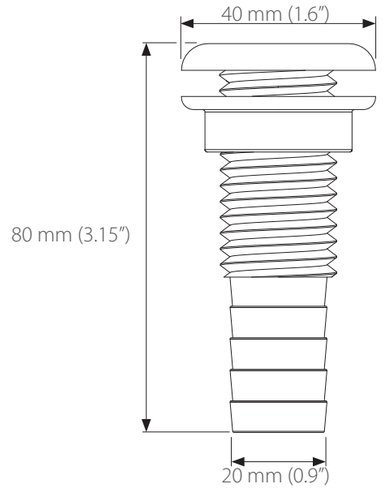


Connect the Thru-Hull Temperature Sensor to the network



A NMEA 2000 drop cable 3 m (10 ft)
B Thru-Hull Temperature Sensor
C NMEA 2000 CAN bus backbone
D 12 V DC Power supply. Connect via a switch and 5 amp fuse

Dimensions



Specifications

Temperature Range between -20 and 80 degrees Celsius (4° to 176° F)

PGNs transmitted
59392 – ISO Acknowledgment
60928 – ISO Address Claim
126996 – Product Information
65285 - Temperature with Instance