



frequently asked questions

Hydra and Hercules System

“My boatspeed readings are crazy!”

This problem can be characterised by one or more of the following symptoms:

- extremely high/low boat speed readings; e.g. 99.9 knots or 0.10 knots
- boat speed readings that are around half or twice the actual value
- extremely high/low stored log values; e.g. 87932 Nm or 00000 Nm

Things to check for:

Incorrect log calibration value

It is wise to check the boatspeed calibration value currently stored in the system. Dependent upon the type of boatspeed sensor connected, ensure the log calibration value entered (Hz/knot) is not wildly different to the factory default setting for the type of sensor used:

Fin Impeller:	7.11 Hz/knot
Sonic Speed:	6.25 Hz/knot
XTL Fin:	4.00 Hz/knot
4-Bladed Paddlewheel:	3.80 Hz/knot
6-Bladed Paddlewheel:	6.25 Hz/knot
Ultrasonic Speed Sensor:	5.55 Hz/knot

If the value is found quite different from the factory default setting, it is recommended that the default value is re-entered to obtain readings that are reasonably accurate. Next, the log should be calibrated over a measured distance to ensure the best possible accuracy. The following procedure describes how to enter the default Hz/knot value for the sensor connected to your system:

Manual Calibration Adjustment - Boat Speed

- (1) Select BOAT SPD.
- (2) If BOAT SPD is in the upper display, press and hold the **Scroll Down** Key to select CALIBRATE from the menu.
- (3) Press **Enter** then press **Scroll Down** and the display shows MANL CAL, which is the choice that we require.
- (4) Press **Enter** and the display shows SINGLE.

Notes

- SINGLE is the choice required if a single speed sensor is fitted.
- If two paddlewheels are fitted, the **Scroll Up** or **Scroll Down** Keys should be used to select PORT CAL or STBD CAL, as required.

- (5) Press **Enter** to reveal the current calibration value in Hertz/knot.
- (6) To adjust the calibration value, press **Enter** and the value flashes.
- (7) Use **Scroll Up** or **Scroll Down** to change the calibration to the default value as required.
- (8) Press **Enter** to store the new value into the system.
- (9) Press **Page** to return to full display.

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