Point-1 FAQ and Troubleshooting Guide

Will Point-1 work with my HDS Gen1?

The Point-1 antenna/heading sensor is a standard NMEA2000® device. Therefore, it will connect to any NMEA2000® backbone and communicate with any NMEA device on that same network. The HDS Gen2 models, both keypad and touch, with software version 2.0 or higher will have GPS damping and filtering features, as well as the ability to initiate heading calibration from the HDS, that will not be present in any HDS Gen1.

How do I select the Point-1 for GPS data on my HDS?

GPS data selection is the same as any NMEA external antenna. GPS sources can be found in the HDS 'Data Sources' menu. This can be found:

- On keypad units, by pressing Menu—Menu—Network – Data Sources. Then selecting GPS, then All Data. You should see the Point-1 listed in this menu.
- On Touch units by pressing the Pages key, tapping Settings, tapping Network, tapping Data Sources. Then selecting, GPS, then All Data. You should see the Point-1 in this menu.
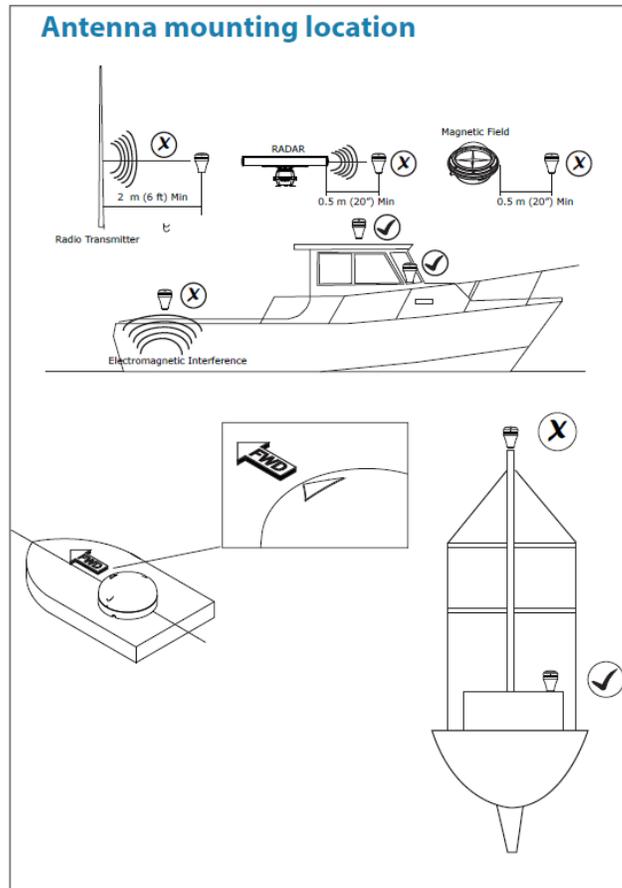
HDS also has an Auto Select feature, when this is enabled the HDS will choose the antenna with the best Signal to Noise Ratio (SNR) from the available satellites. Depending on mounting location, view of the sky, etc. having Auto Select enabled may not always choose the Point-1 for GPS data.

How do I select the Point-1 for heading data on my HDS?

Selecting the Point-1 for heading is the same process as selecting the Point-1 for GPS. However, since heading is determined by a compass, rather than from the satellites, heading can be found under Vessel, from the Data Source Selection page, rather than GPS.

Where should I mount my Point-1?

Point-1 antennas contain a very sensitive electronic compass in the housing. Therefore it is very important to mount the antenna away from anything that emits a magnetic field e.g. Trolling motors, VHF antennas, and radars. A full guide to mounting distance is below:

Antenna mounting location

Just like any other GPS antenna, Point-1 should be mounted where it has a clear, unobstructed view of the sky in order to ensure quality signals from the satellites.

How do I calibrate the heading sensor in my Point-1?

If, at any time the heading data from your Point-1 becomes incorrect, calibration of the Point-1 heading sensor can be done in one of two ways:

- From the HDS unit. HDS Gen2 and Gen2 Touch (with 2.0 software or higher) have the ability to initiate a calibration sequence from the Device list. Simply select the Point-1 from the device list and enter the Details page. From here, press calibrate, you will be taken to the instructions on how to perform a calibration. This is done by driving the boat in several circles. Press Calibrate to begin the process.
- From the Point-1 itself. If you have an HDS Gen2 without 2.0 software, or an HDS Gen1, you can calibrate the Point-1 by unplugging it from the NMEA backbone and plugging it back in. Immediately following this begin turning you boat in a slow circle. The completion of one circle initiates the calibration process, and a second should complete it.

If after completing either of these processes the Point-1 still does not show a heading, retry the calibration.

Heading sensor calibration

The built in heading sensor will need to be calibrated before use.

Auto Calibrate mode

Before the heading sensor calibration is started, make sure that there is enough open water around for the vessel to make multiple full turns.

The calibration should be done in calm sea conditions and with minimal wind to obtain good results

A	Connect the antenna to your powered NMEA 2000 network
B	Enter calibration mode by performing a steady turn completing a 360° rotation in 2-3 minutes
C	Calibrate the heading sensor by rotating though another steady 360° turn in 2-3 minutes
D	Calibration complete. Heading information should now be displayed. If the display shows "___". Please retry the calibration.