

Airmar FAQ

WeatherStation Instruments

ID #1208

How do I calibrate the compass in my WeatherStation, H2183, or GH2183?

WARNING: The internal compass must be calibrated on the water after the sensor is installed. Failure to do so may result in inaccurate compass readings, possibly contributing to damage to the boat, and/or personal injury.

Compass calibration needs to be done in calm seas in a 0.8 km (0.5 mile) open area away from other boats or ferrous objects (structures or aids to navigation). Avoid congested areas and waters with strong currents as calibration will be difficult and possibly hazardous.

IMPORTANT: Calibration requires the vessel to complete 2 to 3 circles. The compass must be calibrated for maximum accuracy from the sensor.

There are three ways to calibrate the compass in your PB200, H2183, or GH2183.

1. Calibrate from your display.

The display manufacturer *may* have a compass calibration option within the display head. Please refer to the display manufacturer's installation/owner's manual for instructions.

2. Auto Calibration Procedure

1. Navigate the vessel to an open area of water, 0.8 km (0.5 mile) of open space away from other boats or ferrous objects (structures or aids to navigation). Choose calm seas.
2. Select the display page on the vessel's NMEA instrument that shows Heading.
3. Shut OFF and then turn ON the DC power that is connected to the sensor.
4. Within 2 minutes of recycling power to the sensor, start the vessel in a slow [4 to 6 knots (4.5 to 7 MPH)] circular turn that takes about 2 to 3 minutes to complete.* If the vessel completes 1.5 circles within 3 to 4.5 minutes, Auto Calibration will begin. Heading will stop being reported on any NMEA 0183 or NMEA 2000 display until the calibration is finished.
5. Keep turning the vessel in the same circle for 1 to 2 more complete circles. Do not change the vessel speed or rate of turn through the circle.
6. When calibration is completed successfully, Heading will return to the display.

If calibration fails, the display will flash Heading ON and OFF in 10 second intervals for 60 seconds. (Display times may vary by manufacturer.)

IMPORTANT: In the event of a calibration failure, repeat the procedure.

3. Calibrate using WeatherCaster™ PC Software.

This information is located on page 44 of the [following link](#) . Please note that an Airmar USB Converter, Combiner, or U200 Gateway is needed for a PC connection.

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