

HS75™ GNSS Compass



Features

Accurate Heading:

An accurate heading sensor is essential for autopilot, advanced radar features, and many other on-board electronics.

The multi-GNSS HS75 supports GPS, GLONASS, BeiDou, Galileo, and QZSS for pinpoint global positioning and heading accuracy. The commercial-grade HS75 offers heading accuracy to within 0.75 degrees: much greater than a common magnetic rate compass, but without the cost and maintenance of a gyrocompass.

Fast and Accurate Positioning:

The HS75's high-speed GPS receiver calculates your position up to 20 times every second, perfect for fast-moving powerboats and equipment that relies on high-speed position updates.

Rate of Turn, Heave, Pitch, and Roll:

The HS75 also calculates your boat's rate of turn, heave, pitch, and roll. Rate of turn is essential for optimal autopilot performance, while heave data is used by some sonar equipment to compensate for the effects of wave action. This additional data is output to compatible equipment over your boat's NMEA 2000® network.

Simple Installation:

The HS75 offers a plug-and-play installation, small form factor, and high performance.

The compass - measuring only 35 cm in length - mounts easily to a flat surface or pole.

Specifications

SENSOR AND POSITIONING ACCURACY

Receiver type	VECTOR SFREQ GNSS COMPASS
Signals Received	GPS, GLONASS, BEIDOU, GALILEO, QZSS ¹
Channels	422
GPS sensitivity	-142 DBM
SBAS tracking	2-CHANNEL, PARALLEL TRACKING (WAAS, EGNOS, MSAS)
Update rate (position and heading)	10 HZ STANDARD
Positioning accuracy	1.2M RMS, (NO SA) 0.3M RMS, (SBAS) ¹
Heading accuracy	0.75° RMS
Heave accuracy (GNSS)	30 CM
Pitch/Roll accuracy	1.5° RMS
Rate of turn	90°/S MAXIMUM
Cold start	60 S TYPICAL (NO ALMANAC OR RTC)
Warm start	20 S TYPICAL (ALMANAC AND RTC)
Hot start	1 S TYPICAL (ALMANAC, RTC, AND POSITION)
Heading fix	10 S TYPICAL (VALID POSITION)
Maximum speed	1,850 KPH (999 KTS)
Maximum altitude	18,288 M (60,000 FT)
Compass safe distance	50 CM

COMMUNICATION

Connector	NMEA 2000 Micro C
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POWER

Input voltage	6 - 36 V DC
Power consumption	3.2 W (multi-GNSS, typical continuous draw at 12 V)
Power isolation	Isolated to enclosure
Reverse polarity protection	Yes

MECHANICAL

Weight (no mount)	0.75 kg
Dimensions (no mount)	L 34.8 cm x W 15.8 cm x H 6.5 cm L 13.7" x W 6.2" x H 2.6"
Aiding Devices	
Six-axis rate sensor (gyro)	Provides smooth heading, fast heading reacquisition and reliable 1° per minute heading for periods up to 3 minutes when loss of GNSS has occurred.
Tilt Sensor	Provides pitch and roll data and assist in fast start-up and reacquisition of heading solution.

ENVIRONMENTAL

Operating temperature range	-40°C - +70°C (-40°F - +158°F)
Storage temperature range	-40°C - +85°C (-40°F - +185°F)
Humidity	95% non-condensing
Enclosure	ISO 60529:2013 for IPx6/IPx7/IPx9
Vibration	IEC 60945:2002 Section 8.7 Vibration

EMC	IEC60945:2002 EN 301 489-1 V2.1.1 EN 301 489-5 V2.1.1 EN 301 489-19 V2.1.0 EN 303 413 V1.1.1
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Global Service



Our Service and Support hotlines are available 24/7/365.

Comes with:

- 2 Year Warranty
- Extended Warranty Options
- Global Service Network
- 2 Year OnBoard Support*
- 24 Hour Replacement*

*Applies to certified vessels only

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