

The Award-winning Compass with Gyro Performance



Key Features and Attributes

- Provides 3-axis gyro-stabilisation for rock-steady heading in all conditions
- Improves autopilot performance
- Provides stable heading for north-up radars
- Auto-calibration
- Offers one central heading device that easily interfaces to all electronics
- Provides true or magnetic north
- Option for KVH TracVision® M5 and TracVision M7 satellite television antenna systems
- Contains no moving parts and requires no maintenance
- Requires no warm-up time

KVH GyroTrac provides gyro performance for 1/4 the cost!

KVH Industries offers an economical gyro system that fits as easily onboard a vessel as it does in a budget – the KVH GyroTrac. Using technology pioneered by KVH, the compact GyroTrac combines two leading-edge concepts: an award-winning KVH digital magnetic compass stabilised by a three-axis gyro sensor. The integration of these systems results in the world's finest magnetic compass, offering the drift-free precision of digital compass technology with the stability and accuracy of gyro-stabilisation – all for less than 25% of the price of a mechanical gyro.

Adding to its versatility is GyroTrac's ability to provide stabilised heading data through a variety of analog and digital outputs. As a result, the operation and precision of virtually all other onboard navigation systems are enhanced. With GPS input, GyroTrac can also calculate true north. Selecting any of these functions and interfacing with other onboard systems is simple thanks to GyroTrac's outstanding user interface. Staying on course has never been so easy!



Staying On Course

GyroTrac's gyro sensor ensures an accurate course in all sea conditions and latitudes.



Offering Affordable Precision

GyroTrac's low price makes the world's finest magnetic compass a high-quality solution for any vessel.

NMEA Award Winner
Best Gyro Compass
GyroTrac Compass



KVH GyroTrac™

Technical Specifications

GyroTrac System Order Part Number 01-0226-03

Physical Specifications

Sensor Module Dimensions	198 mm x 127 mm x 129 mm
Control Unit Dimensions	185 mm x 208 mm x 66 mm
Weight	3.63 kg
Power Input	12-32 VDC Nominal
Consumption	330 mA

Performance

Reference	Magnetic and True North*
Warm-up Time	Milliseconds
Deviation Compensation	Automatic
Accuracy	±1.0° typical
Repeatability/Resolution	±0.25°/0.1°
Recovery Time	Milliseconds
Gyro Drift	None (auto-corrected)
Pitch & Roll Range	±30°
Max. Ang. Velocity	45°/sec.
Linearity	1% of full scale
Max. Acceleration	0.5° G
Zero Point Stability	±0.8°
Max. Shock/Performance	20G, 11 msec.

* Requires input from GPS

Environmental Specifications

Operating Temperature	-25°C to +75°C
Storage Temperature	-40°C to +85°C

Standard Outputs

User-selectable choice of 5 simultaneous outputs:

3 Digital (with choice of):	NMEA1: \$HCHDM, 1Hz - 20Hz
	NMEA2: \$HCHDG, 1Hz - 20Hz
	NMEA3: \$HCHDT, 1Hz - 20Hz
	3-Axis Proprietary, Cetrek
1 Analog (with choice of):	Sin/Cos (3- & 4-wire)
1 Proprietary:	Furuno AD10S

Warranty

2-year parts/1-year factory labour

Meets FCC and CE requirements

Interface Options

Optional Stepper Interface Order Part Number 19-0078

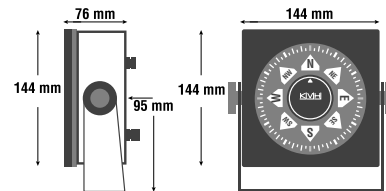
Dimensions	267 mm x 147 mm x 58 mm
Weight	368 grams
Input	NMEA 0183 (GPS or Gyrocompass)
Stepper Output	3, 6, 12, 24 steps/degree, user-selectable
Stepper Output Voltage	5V Standard; (35-70V Option – Order KVH Part Number 19-0089)

Optional Display

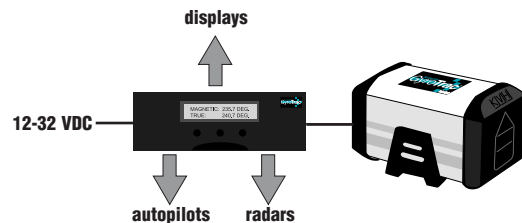
Rotating Card Display Order Part Number 19-0120

Display Type	Rotating Card
Movement	Microprocessor Controlled
Dimensions	144 mm x 144 mm x 76 mm
Weight	1105 grams
Power Consumption	420/450 mA (Lights Off/On)

Rotating Card



GyroTrac System Diagram



For more information, please contact:



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