

Sperry MK37 VT Digital Gyrocompass



Description:

The Sperry Marine MK37 VT Digital Gyrocompass is the industry standard in commercial marine gyrocompass systems. The MK37 provides superior at sea performance in a user friendly, compact system that provides numerous options for optimization of the system for specific application requirements. In use aboard hundreds of vessels world wide, the MK37 system is considered to be one of the most reliable and accurate low cost commercial gyrocompasses in the world today.

Features:

- Superior Performance based upon Sperry's Industry Standard MK37 Master Compass
- Compact three unit design - reduces cable requirements
- Proven reliable master compass
- User friendly display/control panel includes additional heading repeater
- Simultaneous output of heading data in analog and serial formats
- Automatic transfer feature with dual system configurations
- Innovative course and rudder angle recorder option available

The MK 37 VT Gyrocompass

Parameter:	Specification:
Linear Mean Settle Point Error	+/- 0.19 degrees Secant Latitude
Scorsby Error (+/- 25 deg. roll, +/- 15 deg. Pitch)	0.90 degrees Secant Latitude
Master Compass Angular Freedom	Better than +/- 45 degrees in roll and pitch
Speed Correction	Manual or Automatic with Speed Log input
Latitude Correction	Manual or Automatic with GPS input
Settle Time	Less than 5 hours unaided
Temperature Range	Complies with ISO 8728
Serial Data Inputs	One serial RS232 and one RS422 input. Speed - The MK37 VT can accept NMEA 0183 "VHW" and/or "VBW" messages for speed input. Latitude - Latitude data is extracted from position messages. The MK37 VT will monitor input for "GCA" and/or "GLL" sentences
Speed Input, Contact Closure	200 Pulses per nautical mile contact closure input. Speeds within the range of 0 to 70 knots are considered valid.
Serial Heading & Status Outputs	One RS-422 and two RS-232 serial outputs to distribute digital heading. All data is in NMEA 0183 format. The RS-422 line is capable of driving up to 10 loads from a single output. The RS-232 outputs can drive a single load.
Step Channel Output	Eight Step Data outputs; 24 VDC, 6 steps per degree
Rate of Turn Output	One analog rate of turn output; -50mV per degree/minute (+/- 4.5 volts full scale = +/- 90 degrees/minute) output will drive up to 3 indicators
Power Failure Alarm Output	Power Fail relay contacts (Form Contacts) - (Rated at 1 amp @ 30 VDC and/or 300 mA @ 115 VAC)
Compass Failure Alarm/Contacts	Compass Failure alarm relay contacts (Form Contacts) - (Rated at 1 amp @ 30 VDC and/or 300 mA @ 115 VAC)

Power Requirements	Input Voltages: 115/230 VAC, +/- 10%, 47-64 Hz Mains: +24 VDC @ 8 A Emergency: +24 VDC @ 8 A
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