



SG Brown/TSS Meridian Surveyor Gyrocompass

www.ashtead-technology.com

Description:

The Meridian Surveyor boasts a wide range of interfaces to enable use on any marine vessel. The unit utilizes a DTG gyro element which provides exceptional performance with an accuracy unmatched by even the latest fibre optic designs. Unlike conventional spinning mass gyrocompasses, the Meridian Surveyor used a dry tuned element (DTG) that removes the need for routine maintenance.

Key Features:

- Start up power requirement of 1.8A
- IMO, Wheelmark & HSC certified
- Innovative chassis design incorporating state-of-the-art digital electronics for improved reliability
- <40 minutes settling time
- Small, lightweight and versatile
- Dynamic heading accuracy of 0.6°
- Static heading accuracy of 0.1°
- Multiple analogue and digital outputs
- Gyro element design ensures low cost of ownership
- MTBF of 30,000hrs
- High turn rate of 200° per second

The Meridian Surveyor provides reliable, maintenance free operation with a MTBF in excess of 30,000 hrs. The remarkable stable heading can be maintained for long periods. The Meridian Surveyor GyroCompass rents with Operators handbook, Spare fuse, Connector kit and Carrying Case.



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Technical Specifications:

Specification Title	Comment
Display	360° Compass Card and Digital Display
Settle Point Error	0.1° secant latitude
Static Error	0.05° secant latitude RMS
Dynamic Accuracy	0.2° secant latitude
Settling Time	<40 minutes, to within 0.7°
Follow up speed	200°/ sec
S type output	1 x Step by Step (5V TTL), six steps per degree
Synchro output	1 x 26V 400Hz Sector Value 3600(1:1 ratio) 11.8V line to line
Serial Data	11 x RS 422, NMEA0163 5 x RS 232, NMEA 0163 1 x Printer Port, NMEA 0183 1 x R.O.T. i 200/sec. (I 10V)
Status/Alarm	5V TTL power fail/gyro fail 5V TTL system ready
Latitude Input	Automatic: NMEA 0183 via RS232 or RS422 from GPS or manual
Speed	Pulse or contact closure at 100, 200 or 400 per NM from Log NMEA 0183 via R5232 or R5422 from Log
Latitude Compensation	80°N to 80°S
Speed	0 - 90 knots
Ambient Operating Temperature	0°C to 45°C, -15°C + 55°C (with reduced accuracy)
Storage Temperature	-25°C to + 80°C
Gimbal Limits	+ 45° Pitch and Roll
Mean Time Between Failure	30,000 hours
Shock	10g
Input Voltage	24 VDC (18 - 36 VDC)
Start Up	1.8A on start up
Standards	1M0A424 (XI), 1M0A821 (19), BS EN 60945, BS EN ISO 8728.1994, BS 6217.1981

Equipment specifications cannot form any
part of a contract to supply equipment

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Standards

IMO A 424 (X1), IMO A 821 (1bv9), BS EN 60945, BS EN ISO 8728. 1994, BS 6217. 1981 CE Marking, Electromagnetic Compatibility (EMC) Directive and the Marine Equipment Directive 96/98/EC
