

CDL TOGS-S

Tiny Optical Gyro System

The CDL Tiny Optical Gyro System - Surface (TOGS-S) is a fully IMO certified, low cost fibre optic gyro (FOG) based north seeking compass that can be used on all types of surface vessels from large displacement ships to small high speed vessels.

The extremely small size of the CDL TOGS-S unit allows the system to be used for many surface applications where space is at a premium.

CDL TOGS-S rapidly settles on its full heading accuracy of 0.5° secant latitude RMS.

CDL TOGS-S is extremely flexible; it can operate in conjunction with GPS to provide a robust heading solution for surface vessels. TOGS-S also provides pitch and roll outputs to accurately track these aspects of any vessel's performance.

Teledyne TSS can also offer a wide range of repeaters and interfaces for many of the required bridge installations.



PRODUCT FEATURES AND BENEFITS

- Fully IMO Wheelmark certified
- Ultra low power
- Low cost
- Multiple output protocols
- Pitch and roll
- Powerful processor for INS functionality
- Small size



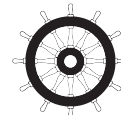
TELEDYNE TSS
Everywhereyoulook™

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TECHNICAL SPECIFICATIONS

Performance	Heading accuracy	0.5° secant latitude RMS	
	Roll & pitch accuracy	0.1° RMS	
	Heave accuracy	N/A	
	Alignment time	<10 minutes	
	Angular rate	+/- 300°/s	
	Operating latitude	+/- 70°	
Position	Free inertial drift	N/A	
	DVL aiding	N/A	
	GPS aiding	N/A	
	USBL & LBL aiding	N/A	
Power	Power supply	18 - 30Vdc	
	Power consumption	16W	
Interface		1 input (GPS), 2 outputs	
		Software configurable serial ports (NMEA standards, binary or user defined)	
		RS-232 / RS-422 / RS-485	
Physical Characteristics	Dimensions	152mm (d) x 221mm (h)	
	Weight in air	4kg	
	Weight in water	N/A	
	Rating	N/A	
Environmental and EMC	Operating temperature	-5°C to +45°C	
	Storage temperature	-40°C to +80°C	
	Environmental	Meets or exceeds IEC 60945	
	EMC	Meets or exceeds IEC 60945	
	MTBF	N/A	
Options		N/A	
Compliance	Standards	Marine Equipment Directive Annex A.1, item No A. 1/4, 31 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation X/3, IMO Res A.694(17) & A.821 and 2000 HSC Code 13. Annex A.1, Item No. A. 1/4. ISO 16328, IEC 60945, ISO 61162-1, IEC 61162-2	
	Export	UK	ECCN 7A0003d
		USA	ECCN 7A994
Warranty		12 months international warranty including parts and labour	



COMPANY WITH
MANAGEMENT SYSTEMS
CERTIFIED BY DNV
= ISO 9001 =
= ISO 14001 =
= OHSAS 18001 =

Specifications subject to change without notice.
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