

Teledyne CDL

TOGS

FIBER OPTIC GYRO

The Teledyne CDL TOGS (Tiny Optical Gyro System) is a low cost FOG (Fibre Optic Gyro) based North seeking compass for use on vessels and Remotely Operated Vehicles (ROVs).

The extremely small size of the TOGS unit allows the system to be used in many underwater applications where space is at a premium. TOGS achieves 1% of full heading accuracy in less than 3 minutes and rapidly settles on its full heading accuracy of 0.5 deg secant (latitude) within 10 minutes. TOGS provides pitch, roll and heave outputs to accurately track all aspects of vessel or ROV motion.

Housing options include lightweight surface, 3000m subsea, 4000m subsea and 6000m Titanium. The 3000m version weighs only 7kg. Also available as an IMO Approved Surface Gyro (TOGS-S).



PRODUCT FEATURES

- Low Cost
- Very Small
- Very Lightweight
- Optical Technology (FOG) – No Moving Parts
- Fast North Seeking
- Pitch & Roll
- Depth Sensor Option (IPS)



TELEDYNE CDL
Everywhere you look™

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TECHNICAL SPECIFICATIONS

AHRS Specification:

Heading accuracy 0.5 deg sec (lat)*
Pitch and roll 0.1 deg*

Power Requirements:

Voltage 18 - 30VDC
Power 8 - 12W

Telemetry Interface:

Serial outputs 4 software configurable serial ports
Serial protocol options RS 232, 422 and 485
Other interfaces Ethernet is optional

Weight and Dimensions:

	3000m	4000m	6000m	
Depth				
Material	Aluminium 6082 T6 Hard Black Anodized Ti Grade 5	Aluminium 6082 T6 Hard Black Anodized Ti Grade 5	Option A: Titanium T6	Option B: 17/4-PH55 Stainless
Diameter	177mm	187mm	187mm	187mm
Height	244mm	262mm	262mm	262mm
Weight in air	10.5kg	13.5kg	16kg	26kg
Weight in water	4.8kg	6.5kg	10kg	20kg

Mounting Holes:

4 x M8 on 141mm square pitch
M6 on a 158 x 110 rectangular plate