

MiniSense **CD/L**

The CDL MiniSense product range offers a price breakthrough in marine motion sensing technology. By utilising high accuracy MEMS (Micro-Electro-Mechanical Sensor) technology CDL have achieved significant cost reductions whilst maintaining performance figures that can match sensors costing much more.

The MiniSense provides a new concept in motion sensing where a common systems architecture is used as a platform for a variety of different accelerometers and rate gyros. This allows a large range of abilities in terms of price and performance to be provided from the same product line. Variable FIR filters allow matching of the sensor to individual applications and therefore optimise performance.

The MiniSense can provide high accuracy heave, pitch and roll data as well as having three axis rotational and linear acceleration output that allows complete monitoring of units motion. The unit contains an embedded computer which gives great flexibility over data output formats and is capable of simulating any other sensor output on the market.

The sensor can aid GPS and velocity inputs. The housing is machined from solid marine grade Aluminium (3,000m version) or Titanium (6,000m version). It is also available as a surface unit and an OEM part for a large variety of uses.



Features:

- Small size
- High accuracy
- Low cost
- Light weight
- Highly adaptable
- Low power
- Rugged
- Variable filtering

MiniSense **CD/L**

Product Specification:

Performance:

Range:	Heave	+/- 10m
	Pitch	+/- 90 deg
	Roll	+/- 180 deg

Bandwidth:	Heave	0.04 to 40 Hz
	Pitch	0 to 40 Hz
	Roll	0 to 40 Hz

Dynamic accuracy:		
	Heave	10 cm or 10% whichever is greater
	Pitch	0.5 deg
	Roll	0.5 deg

Higher accuracy sensors available upon request

Static accuracy:		
	Pitch	0.1 deg
	Roll	0.1 deg

Resolution:	Heave	1 cm
	Pitch	0.01 deg
	Roll	0.01 deg

Environment:		
	Operating temperature	- 40 to 85oC
	Calibrated temperature	0 to 50oC
	Non operating Shock	2000g (0.5ms)

Electrical:		
	Supply voltage	10-36 Vdc
	Current	50mA (at 24V)

Mounting:		
		4 holes M3 44 x 44mm

Dimensions:		
		51 dia x 123 mm

CDL - Silverfield House - Claymore Drive
Aberdeen AB23 8GD - Scotland - UK
Tel: +44(0)1224 706655 - Fax: +44(0)1224 709840

DEALERS STAMP