

MiniTilt



The CDL MiniTilt is a surface or subsea Pitch and Roll sensor for use in the offshore survey industry. It provides an accuracy of 0.05 degrees in both axes over the full 360 degree range. The unit can be provided in a surface or subsea (3,000m or 6,000m rated) package or can be supplied in an accurately machined mounting frame for OEM applications.

The MiniTilt is highly compatible with existing Pitch and Roll sensors. It uses a bank of 6 internal option switches to provide a total of 32 different output data formats.

The zero point can be factory set to any position. This allows for unusual mounting arrangements where the MiniTilt can be placed horizontally rather than vertically. The zero point can be set to any mark on the 360o angle so even offset mounting arrangements can be handled.



Features:

- High accuracy (0.05°)
- Low cost
- 3,000m depth rated
- 6,000m optional
- Surface & OEM versions
- Full 360 degree range
- Gyro heading input
- 32 data strings options

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Product Specification:

Data output	RS 232 and Current Loop
Baud rate	9,600 (other rates available on request)
Output rate	2 Hz
Data Bits	8
Stop Bits	1
Parity	None

8 Pin connector (Burton or Binder)

1	Vin (5Vdc-30Vdc)	Range	360°
2	GND	Range	360°
3	CL Hi (Output)	Resolution	0.01°
4	CL Lo (Output)	Accuracy	0.05°
5	RS 232	Calibration points	128 (per sensor)
6	RS 232		
7	CL Hi (Gyro Input)		
8	CL Lo (Gyro Input)		

Temperature coefficient	0.003° per oC
Repeatability	0.03°
Hysteresis	0.05° (average)
Noise	0.01°
Frequency response	0.4 seconds (typical)
Voltage	5-30 Vdc
Current consumption	<10mA (@12Vdc typical)
Temperature range Operating:	-30°C to +55°C
	Storage: -30°C to +65°C
Humidity sensitivity	Conformally coated

Surface and underwater housing:
85mm Diameter
104 mm High

Mount details: M4 65mm x 65mm

Weights:

Weight in air:	1.15 kg
Weight in water:	0.55 kg
Transit case:	1.5 kg

Dimensions of transit case: 240x180x170mm

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