

CDL SUBSEA PITCH & ROLL SENSOR



GENERAL DESCRIPTION

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 360° angle so even offset mounting arrangements can be handled.

Features:

High accuracy
Low Cost
3,000m depth rated
6,000m optional
32 data strings options

Surface and OEM versions
Full 360 degree range
Gyro heading input

Product Specification:

Range	360°
Resolution	0.01°
Accuracy	0.05°*
Calibration points	128 (per sensor)
Repeatability	0.03°*
Hysteresis	0.05° (average)
Noise	0.01°
Frequency response	0.4 seconds (typical)
Voltage	5-30 Vdc
Current consumption	<20mA (@12Vdc typical)

Telemetry Interface:

Data output	RS 232 and Current Loop
Baud rate	9,600
Output rate	8Hz (Standard) 2 Hz (Optional)
Data Bits	8
Stop Bits	1
Parity	None

Environment:

Temperature range Operating:	-30°C to +55°C
Temperature range Storage:	-30°C to +65°C
Temperature coefficient	0.003° per °C
Humidity sensitivity	conformably coated

Weights and Dimensions:

Weight in air:	1.15 kg
Weight in water:	0.55 kg
Transit case:	1.5 kg
Dimensions of transit case:	240x180x170mm
Surface and underwater housing:	85mm Diameter 104 mm High 65mm x 65mm

Mount Details:



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