

CDL MICRO GYRO 3000M DEPTH RATED



GENERAL DESCRIPTION

- Robertson SKR82 Gyro
- Extremely Compact Size
- High Accuracy Pitch & Roll
- Advanced Data Drive System
- Topside Control System
- 3,000m/7,000m Depth Rating
- Light-weight Pod (27kg)
- Temperature and Depth Options
- Automatic AC Voltage Selection
- Mechanical Gimballing System

The CDL MicroGyro has been designed to meet the requirement for high quality deep-water attitude information within the survey industry. Based around the industry standard Robertson SKR82 gyrocompass, the unit provides sensor information at a high update rate either through lightweight umbilical or through customer ROV umbilicals. The CDL MicroGyro is extremely small measuring only 9" diameter by 17" length. This allows easy helicopter transportation for last minute projects and achieves a 3,000m depth rating with a total pod weight of less than 27kg. Installation is an easy one-man operation.

The MicroGyro contains CDL's MiniTilt high accuracy pitch and roll sensor as a standard item giving 0.05 degree accuracy over the full 360 degree range in both axes.

Maximum flexibility has been the major design criteria. An auto-switching power supply has been used for easy operation on either side of the Atlantic. Alternatively, the gyro can be powered from 240 V DC. The subsea pod has data available in current loop and RS232 formats for easy integration in to ROV multiplexer or sonar network systems. A mechanical gimballing system allows the MicroGyro to operate in rough water. The freedom of movement is greater than 90 degrees, allowing horizontal or vertical launch capabilities.



At the topside, the MicroGyro is controlled by the new CDL Data Display Unit (DDU). The DDU is a general use display unit which contains a high contrast colour display, powered by the Microsoft Windows CE operating system. This allows maximum flexibility for producing custom data outputs and displays to clients requirements. The DDU has 2 RS232 outputs for connection to existing survey software packages. Multiple data output formats and baud rates are selectable on the front panel to minimise telegram compatibility programmes.



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TECHNICAL SPECIFICATIONS

Gyro Performance:

As per SKR82
Settling point error: +/- 0.5 degree x sec. latitude
Repeatability: +/- 0.25 degree x sec. latitude
Dynamic (at sea): +/- 0.7 degree rms

Pitch and Roll: Accuracy 0.05 degree

Temperature: Accuracy 0.5 degree C

Depth: Accuracy 0.25% FSD

Gimballing System: Range +/- 95 degree

Power Requirement:

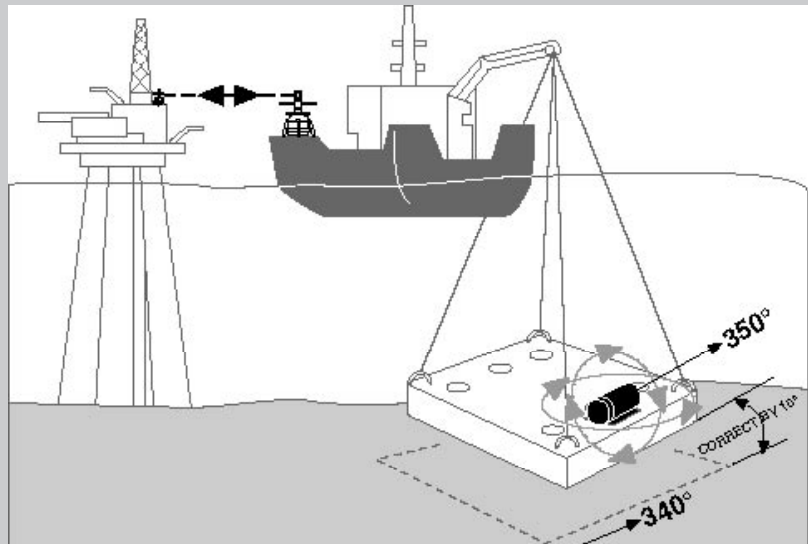
Run-up (45 mins): 125W
Operating: 25W (Average)
IP Voltage: 85-260vAC (universal) or 18-32vDC

Weights and Dimensions:

Pod: 22.8cm dia x 48.7cm (27Kg)
Display Unit: 24 x 18 x 9cm (4.5Kg)
In transit case: 58 x 48 x 38cm (45Kg)

Settling Time: 45 minutes from switch on

Mounting: External feet pitch: 43.6 x 18.8cm (4 holes
13mm dia)



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