## **CFA-300X**Slimline Fiber-Optic Gyro



ACCURACY AT WORK
FOR DRILLING APPLICATIONS



## SLIMLINE FIBER-OPTIC GYRO

## FOR **DRILLING** APPLICATIONS



The **CFA-300X** is a slim (OD 1.6") 3-axis FOG attitude and heading reference system designed specifically for horizontal drilling applications (HDD). Internal design comprises an advanced solid-state 3-axis fiber-optic (FOG) inertial measurement unit with highly integrated digital electronics and CPU. The proven MWD crossovers are designed to be mounted in the bottom hole assembly (BHA) of a drill collar. An advanced AHRS algorithm with Kalman Filter continuously monitors sensor performance to provide optimum accuracy in all conditions.

After initial alignment, the **CFA-300X** enters navigation mode and provides continuous updates of heading, roll and pitch when requested via the client-server RS485 interface. If necessary, gyrocompassing can be performed at anytime when stationary.

SYSTEM PERFORMANCE	
Heading Accuracy (RMS)	<= 0.2° SecLat 1σ
Inclination / Toolface	+/-O.1°
Gyrocompass	Yes, 4 minutes stationary
Azimuth drift when drilling	<0.02°/hr
Shock	30g survival (half-sine) 11ms
Vibration	10g survival 5-500Hz random
Magnetic Sensitivity	<20 Gauss no degradation

## PHYSICAL CHARACTERISTICS

**Environmental conditions** 

Temp Range: -25 to +70°C

**Dimensions**Outside Diag

Outside Diameter: 40.64mm (1.6")

Length: 918mm

Power

Supply Voltage: 24-30V DC Power Dissipation: <12W

Interface

RS485 client-server Baudrate 9600 - 23K bps **Export Classification** 

None

