ER-DTG-E2 Oil And Gas DTG Gyroscope

Introduction

Oil and Gas DTG Gyroscope is designed specifically for the drilling fields.

After solving many technical difficulties, now its operating temperature up to 100 degree Celsius.

In the drilling field, inertial devices is greater and more adaptable than flying field, because of its tough working conditions, especially the higher environmental temperatures. Therefore, the temperature of adaptation and life requirements are very serious.

Features

Working temperature up to 100 degrees Celsius;

Better applied to the field of drilling;

Strong adaptability.

Specifications

| N0. | Item | Parameter |
|-----|-----------------------------|-----------|
| 1 | Random Drift (1σ) | ≤0.3°/h |
| 2 | Drift Stability (1σ) | ≤0.2°/h |
| 3 | G-independent | ≤12°/h |
| 4 | G-dependent | ≤3°/h |
| 5 | Frequency Response | ≥60Hz |
| 6 | Power Supply (Three Phase) | 400Hz 12V |
| 7 | Power Supply (Single Phase) | 16KHz 7V |
| 8 | Synchronous Speed | 12,000 |
| 9 | Power to Start Up | 4 W |

| 10 | Operating Current | ≤0.18 A |
|----|-----------------------|------------|
| 11 | Synchronizing Time | ≤10 S |
| 12 | Output Gradient | 14 mv/' |
| 13 | Master torquer | 7Ω |
| 14 | Vice control torquer | 2Ω |
| 15 | Master torquer | ≥500°/h/mA |
| 16 | Vice control torquer | ≥10°/h/mA |
| 17 | Max. Tracking Speed | ≥200 °/s |
| 18 | Output Non-linearity | ≤0.1% |
| 19 | Lifetime | ≥5000 |
| 20 | Operating Temperature | -10~+100℃ |
| 21 | Shock Overload (8ms) | ≥50 g |
| 22 | Dimension | φ29×52 mm |
| 23 | Mounting flanges | 30×30 mm |
| 24 | Weight | ≤130 g |