

Rate Gyro Attitude Heading Reference System

Introduction

The ER-AHRS-3 Rate Gyro attitude and heading reference system consists of a single degree of freedom gyro and a control box. The control box is composed of a gyro motor (440HZ, 55V), a feedback amplifier, a self-check circuit, etc., which is very suitable for large-sized ships to sail in turbulent waters.

Specifications

Sensitivity and resolution: 0.1°/min

Successive non-repeatability: 0.3°/min

Linearity: 0.3°/min

Full measuring range: ±30°/min or 90°/min

Indicating meter full scale error: ±1.5°/min

Response time: ≤0.35s

Start-up time: 5min

Ambient temperature: -10°C~+50°C

Input power: 50Hz 220V [(1+6%)/(1-10%)]

Consumed power: 35W

Life: 20000 Hours

Size:

Control box: 250*256*180mm³

Gyroscope: 100*130*90mm³

Weight: gyroscope: 2.5kg

Control box: 12kg

Application

1. Gyro Motor
2. Gimbal
3. Supporting
4. Angular transducer
5. Torquer
6. Feedback amplifier