

1. Introduction

ER-MNF-04 MEMS Gyro North finder is mainly used to find true north automatically. After get heading angle, if north finding inertial navigation start to move, it could output continuous changing dynamic tilt angle and heading angle. ER-MNF-04 MEMS Gyro North finder uses low speed drift MEMS gyro to find north, built-in IMU is used to measure tilt angle and direction reckoning. It has features of miniature, low power consumption, long usage life, high reliability.



2. Features

- Reliable, IP65
- Low power consumption, 24V, 0.5A
- Not affected by magnetic interference, do not depend on satellite
- Portable, size 5.8*6.8*8.45CM
- Measure static roll and pitch, static accuracy: 0.2°
- Static true north finding, 1 σ north finding accuracy 0.5°sec Φ (Φ local latitude)

3. Application

- Weapon equipment
- Equipment calibration
- Construction
- Well and tunnel measurement

4. Technical data

Parameters	ER-MNF-04A
North finding accuracy	0.5°
North finding time	≤ 6min
Tracking accuracy	0.2°
Working voltage	12V

Working current	≤1A
Data interface	RS422
Working temperature	-40°C - +70°C
Storage temperature	-55°C - +85°C
Dimension	58*68*84.5mm
Material	Aluminum alloy
Weight	500g
MTBF	10000H

5. Dimension

