

## ER-MNS-04 Low Cost MEMS North Seeker

### Introduction

ER-MNS-04 Low Cost MEMS North Seeker ( $0.5^{\circ}/1^{\circ}$ ) use high precision MEMS gyro to find true north, built-in IMU is used to measure pitch angle. It has features of miniature, low power consumption, long usage life, high reliability.

Products are widely used in coal mining, oil drilling, tunnel construction and geodesy, also can be used for static initial alignment and direction control of radar, antenna, vehicle and other objects.

### Specifications

Parameters	ER-MNS-04A	ER-MNS-04B
North Seeking Precision	$0.5^{\circ}$	$1^{\circ}$
North Finding Time	$\leq 6$ min	$\leq 6$ min
Tracking Accuracy	$0.2^{\circ}$	$0.2^{\circ}$
Working Voltage	12V	12V
Working Current	$\leq 1$ A	$\leq 1$ A
Data Interface	RS232	RS232
Working Temperature	$-40^{\circ}\text{C}\sim+70^{\circ}\text{C}$	$-40^{\circ}\text{C}\sim+70^{\circ}\text{C}$
Storage Temperature	$-55^{\circ}\text{C}\sim+85^{\circ}\text{C}$	$-55^{\circ}\text{C}\sim+85^{\circ}\text{C}$
Dimension	58*68*84.5mm	58*68*84.5mm
Weight	500g	500g
Mean Time between Failures	10000H	10000H