

ER-MNS-05 Triaxial MEMS North Seeker

1. Technical Features

Triaxial gyro and accelerometer
Full temperature compensation
Mini size and high performance
Light weight, low power consumption
Resistant to harsh mechanical environment
Have software online upgrade function

2. Applications

Coal mining
Oil drilling
Tunnel construction
Geodesy
Static initial alignment of missile launch, weapon targeting
Direction control of radar, antenna, vehicle

3. Specifications

Model No.	ER-MNS-05A	ER-MNS-05B
Power supply (V)	5±0.25V	5±0.25V
Power (W)	2	2
Run-up time (s)	2	2
Communication interface	RS-422	RS-422
Update Rate (Hz)	200	200
North seeking accuracy (°, 5min)	1sec (L)(L is latitude)	0.5sec (L)(L is latitude)
Size (mm×mm×mm)	70×65×45	70×65×45
Weight (g)	200	200
Environmental conditions		
Operating temperature (°C)	-40~60	-40~60
Storage temperature (°C)	-55~85	-55~85
Reliability		
Mean Time Between Failures (h)	200000	200000

4. Wiring Definition

Connect Type	Pin	Definition
J30J-15ZKP	1	+5V
	2	
	3	GND
	4	
	6	Tx+
	7	Tx-
	8	Rx+
	9	Rx-
	10	GND