

NF2000: HIGH PERFORMANCE FOG NORTH SEEKER SENSOR

■ PRODUCT DESCRIPTION



NF2000 series is based on a closed-loop fiber optic gyroscope as the core component, and it consists of an inertial measurement unit, a digital signal processing unit, and a mechanical mechanism. It can simultaneously provide the azimuth angle between the carrier and true north, as well as the motion attitude, velocity, and position information of the carrier. Main applications: coal mining, oil drilling, tunnel construction, and geodesy. It is also used for static initial alignment and direction control of missile launch, weapon targeting, radar, antennas, vehicles, and other objects.

■ PRODUCT MAIN SPECIFICATION

	Parameters	NF2000-A	NF2000-B
1	Gyroscope type	3-axis Fiber optic gyroscope	3-axis Fiber optic gyroscope
2	Dimensions mm	200×100×90mm	200×100×90mm
3	Weight	2KG	2KG
4	Supply voltage	12V	12V
5	Electric current	1A	1A
6	Power waste	≤12W	≤12W
7	Start time	5min	5min
8	Working latitude	±65°	±65°
9	North finding accuracy	1°secψ	0.5°secψ
10	North search time	5min	5min
11	Range of heading angle measurement	0°~360°	0°~360°
12	Range of elevation angle measurement	-65°~+65°	-65°~+65°
13	Output method	RS422 (customizable according to user needs)	
14	Working temperature	-40~+70°C	
15	Vibration environment	10Hz~1000Hz, 5g	
16	Impact environment	8ms~11ms, 20g, half sine	

■ PRODUCT APPLICATION

- Static initial alignment and direction control of missile launch, weapon targeting, radar, antennas, vehicles, and other objects.
- Coal mining, oil drilling, tunnel construction, and geodesy