

# LP231 Miniature North Finding System

## 1. Brief Introduction

LP231 North Finder/Seeker is consist of single axis optical gyroscope, high accuracy biaxial accelerometer, high-speed navigation computer, secondary power supply and so on. Suitable for vehicle platform of information vehicle. This product has anti shake self seeking capability, by using high performance material vibration isolator and fusing advanced filtering algorithm.



## 2. Features

- (1) Strong anti shaking capability.
- (2) Good environmental suitability.
- (3) High accuracy of north seeking and attitude measurement.
- (4) The conversion function between UTM coordinate system and WGS-84 coordinate system;
- (5) Long term calibration free.
- (6) Small size and weight, easy to carry.

### 3. Performance

Sr. No.	Item	Grade	Remark
<b>System</b>			
1	North seeking time	< 5min	
2	North seeking accuracy	1mil	( $1\sigma$ )
3	Measurement range	$\pm 15^\circ$	
<b>Environmental suitability</b>			
4	Shock	40g	
5	Working temperature	-40°C ~ 65°C	
6	Vibration	Meet the vehicle vibration requirement of GJB150.16A-2009	
<b>Physics characteristics</b>			
7	Size	217*217*224.5mm	
8	Weight	10kg	
9	Power supply	18VDC ~ 36VDC	
10	Power dissipation	40W	
<b>Interface characteristic</b>			
11	Interface	RS232、RS422、CAN	Selectable
12	MTBF	$\geq 1500\text{h}$	
13	Data refresh rate	100Hz	
14	Band rate	115200bps	

### 4. Application

- (1) Down hole equipment
- (2) Outdoor mapping
- (3) Platform reference calibration.
- (4) Vehicle
- (5) Radar system