

## Low Cost 2 Axis MEMS Gyro

Low Cost 2 Axis MEMS Gyro is composed by the two-axis gyro, temperature sensors, signal processing board, the structure and other necessary software, which is widely used to measure the two-axis angular rate of the carrier, the X and Y axis angular rate and temperature value, through RS-422 serial port and according to agreed communication protocol output, by error compensation (including temperature compensation, install the misalignment angle compensation, nonlinear compensation)

### Specifications

Item	Specification	Unit
Range (Can be configured to $\pm 2000$ )	$\pm 500$	$^{\circ}/s$
Zero bias stability (Allen)	$\leq 5$	$^{\circ}/h$
Zero bias stability	$\leq 30$	$^{\circ}/h$
Zero bias repeatability	$\leq 20$	$^{\circ}/h$
Scale Factor Non-linearity	$\leq 0.02$	%
Installation error	$\leq 0.2$	%
Resolution	0.02	$^{\circ}/s$
Weight	$\leq 10$	g
Start up time	$\leq 2$	s
Voltage (DC)	(+5 $\pm 0.5$ )	V
working current	$< 0.1$	A
Operation temperature	(-45~85)	$^{\circ}C$
Storage temperature	(-55~105)	$^{\circ}C$
Vibration	10~2000Hz, 6.06g	
Shock	16000g, 2ms	