

Two Axis MEMS Gyro

Two Axis MEMS Gyro consists of two-axis gyroscope, temperature sensor, signal processing board, structural member, and other necessary software for measuring the two-axis angular rate of the carrier, measuring the X-axis and the Y-axis angular rate and temperature value. And according to the agreed communication protocol (via the RS-422 serial port), error compensation (including temperature compensation, mounting angle compensation, nonlinear compensation, etc.)

Specifications

Item	Specification	Unit
Range (Can be configured to ± 2000)	± 500	$^{\circ}/s$
Zero bias stability (Allen)	≤ 10	$^{\circ}/h$
Zero bias stability	≤ 50	$^{\circ}/h$
Zero bias repeatability	≤ 40	$^{\circ}/h$
Scale factor non-linearity	≤ 0.02	%
Installation error	≤ 0.2	%
Resolution	0.02	$^{\circ}/s$
Weight	≤ 10	g
Start up time	≤ 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	