

战术级IMU



IMU 2000-01

Model	IMU2000-01	
Parameter	Units	Value
Output signals		Pitch,Roll,Accelerations,Angular rates
Start-up time	Sec	<1
	Pitch&Roll	
Range:Pitch	deg	± 90
Range&Roll	deg	± 180
Angular Resolution	deg	0.01
Static Accuracy,RMS	deg	0.05
Dynamic Accuracy RMS	deg	0.08
Sensor	Gyro	Accelerometer
Measurement range	±2000 deg/s	± 15g
Bandwidth	Up to 200 Hz	Up to 200 Hz
Bias in-run Stability (Allan Variance)	<8 deg/hr	0.03 mg
Bias instability (in temp. range,RMS)	0.2 deg/sec	1.1mg
Bias one-year repeatability	0.5 deg/sec	2.0mg
Scale Factor Accuracy	500 ppm	700 ppm
SF one-year repeatability	1000 ppm	1400 ppm
Random Walk	0.36 deg/√hr	0.045 m/sec/√hr
Power Spectral Density	0.006 deg/√Hz	0.08 mg/√Hz
Non-linearity	0.05%	0.05%
Axis misalignment	0.15 mrad	0.15 mrad
	Environment	
Operating temperature range	deg C	-40 to +85
Storage temperature range	deg C	-45 to +90
Environmentally sealed	IP67	
	Electrical	
Output Interface	RS-232 or RS-422	
Baud Rate	bps	Up to 3M(RS-422) Up to 1M(RS-232)
Update rate	Hz	500
	Physical	
Size	mm	26.5x19.5x7.4
Weight	gram	9