

战术级IMU



IMU 2000-02

Model	IMU2000-02	
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	±40g
Bandwidth	Up to 200 Hz	Up to 200 Hz
Bias in-run Stability (Allan Variance)	<8 deg/hr	0.05 mg
Bias instability (in temp. range,RMS)	0.2 deg/sec	1.5mg
Bias one-year repeatability	0.5 deg/sec	2.5mg
Scale Factor Accuracy	500 ppm	850 ppm
SF one-year repeatability	1000 ppm	1700 ppm
Random Walk	0.36 deg/√hr	0.06 m/sec/√hr
Power Spectral Density	0.006 deg/√Hz	0.1 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