ATA Sensors

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Dynapak 12

3-Axis ARS-12 Sensor Packages

Designed to measure jitter from airborne mirrors, optical systems or lasers, and for accurate line-of-sight imaging platform stabilization, the Dynapak 12 triaxial sensor packages measure ultra-low level angular jitter in the sub-microradian regime. All Dynapak 12's exhibit noise equivalent angles (NEAs) of less than 50 nanoradians rms over a 2-1000 Hz integration bandwidth and can incorporate selectable high and low ranges to provide a large dynamic range of jitter measurement.

The **Dynapak 12** sensor packages can be used anywhere angular jitter must be monitored. The sensor packages use three ARS-12B sensors, and optional power/signal conditioning and temperature measurement electronics. The outputs are bipolar analog signals.

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The three-axis jitter measurements may be used as a diagnostic tool to optimize performance. Jitter measurements recorded simultaneously with digital image data can be used to enhance images during post-processing.

Dynapak 12 outputs are typically in angular rate, but may also be conditioned to provide angular displacement. ATA Sensors can provide custom designed triaxial jitter measurement packages with various bandwidths and scale factors. Custom space-qualified 3-axis packages are also available.

Parameter	Rate Sensor Package	Unit/Comments
Size	2.5W x 4.5L x 3.5H 6.4W x 11.4L x 8.9H	in cm
Weight	2.8 1.3	lb kg
Power Supply	± 15 VDC (dual)	
Power Consumption	<4.0	W
Scale Factor	10, 100, or 1000	Volts/radian/sec (standard, other scale factors available on request)
Range	± 1, 0.1, 0.01	radian/sec (Based on ± 10V output to data acquisition system)
Bandwidth	2 to 1000	Hz (-3dB points)
Noise Equivalent Angle (2-1000 Hz BW)	<50	nanoradians rms
Temperature Operating Non-Operating	 -35 to +65 -35 to +65	 º C º C

ISO 9001:2000

QMI REGISTERED

As a leader in design, manufacture, and distribution of precision measurement, sensing, and control instruments and systems, the ATA Sensors Management System has been certified to ISO 9001:2000.

Automobile Motion & Crash Testing • Aircraft Ejection Testing • Modal Analysis • Aerospace Controls • Machinery Monitoring • Human Motion Analysis
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