

Dynapak 14

3-Axis ARS-14 Sensor Packages

Designed to measure jitter from airborne mirrors, optical systems or lasers, and for accurate line-of-sight imaging platform stabilization, the Dynapak 14 triaxial sensor packages measure ultra-low level angular jitter in the sub-microradian regime. All Dynapak 14'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 14 sensor packages can be used where angular jitter must be monitored. The sensor packages use three ARS-14 sensors, and optional power/signal conditioning and temperature measurement electronics. The outputs are bipolar analog signals.

Dynapak 14 outputs are typically in angular rate, but may also be conditioned to provide angular displacement. ATA can provide custom designed triaxial jitter measurement packages with various bandwidths and scale factors.

Custom space-qualified 3-axis packages are also available.



Dynapak 14

This product is subject to U.S. Government approval as required in accordance with the U.S. Government International Traffic in Arms (ITAR) Subchapter M, Title 22, Code of Federal Regulations, Parts 120 through 130 (22 CFR 120-130).

Parameter	Rate Sensor Package	Unit/Comments
Size	2.5W x 4.5L x 3.6H 6.4W x 11.4L x 9.1H	in cm
Weight	2.9 1.3	lb kg
Power Supply	± 15 VDC (dual)	
Power Dissipation	<1.5	Watts
Scale Factor	20 (Custom Available 10-1000)	Volts/(radian/sec) (standard, other scale factors available on request)
Range	± 0.5 (Custom Available ± 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	-30 to +50	°C
Non-Operating	-40 to +60	°C



ISO 9001
QMI-SAI Global
#1034112