

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 1-1000 Hz integration bandwidth.

Dynapak 14 outputs are typically in angular rate, but custom sensor packages can be produced where the output signal has been conditioned to provide a measure of angular displacement. Selectable high and low gain can also be provided on a custom basis to provide a large dynamic range measurement. Custom scale factor and bandwidth sensor packages can also be provided.

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

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).

Specifications are subject to change without notice.

The Dynapak 14 is designed to be a space-qualified sensing package. A model without radiation-hardened parts is also available at a substantially lower cost.

Custom Products

Custom sensing packages are available including scale factor, supply power, mechanical/mounting features, etc. Contact ATA with your custom angular jitter sensing requirements.



Dynapak 14



**Line of Sight Stabilization
in Optical Communications**




**Jitter Measurement/Compensation
in Imaging Satellites**



**Jitter Control/Rejection
in Directed Energy Systems**

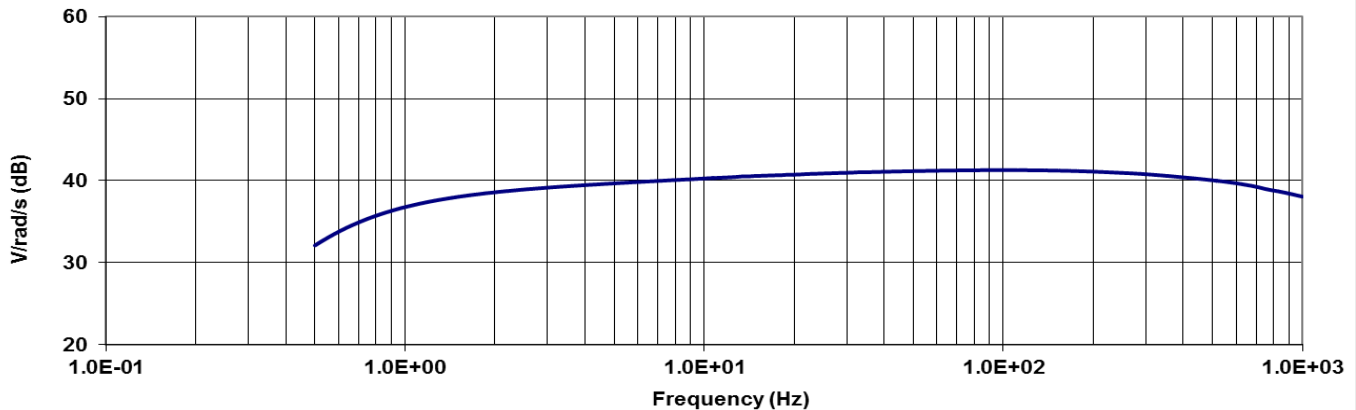
Parameter	Rate Sensor Package	Unit/Comments
Size	2.5W x 4.5L x 3.6H 6.4W x 11.4L x 9.1H	in cm
Weight	2.9 1.3	lb kg
Power Supply	± 15 VDC (dual)	
Power Dissipation	<1.5	Watts
Scale Factor	20 (Custom Available 10-1000)	Volts/(radian/sec) (Standard, other scale factors available on request)
Range	± 0.5 (Custom Available ± 1-0.01)	radian/sec (Based on ± 10V output to data acquisition system)
Bandwidth	1 to 1000	Hz (-3dB points)
Noise Equivalent Angle (2-1000 Hz BW)	<50	nanoradians rms
Temperature Operating Non-Operating	-30 to +50 -40 to +60	°C °C



SAI GLOBAL
ISO 9001
Quality

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Typical Dynapak 14 Magnitude Response (One Axis, Analog Output)



Typical Dynapak 14 Phase Response (One Axis, Analog Output)

