



AVI-400

Active Vibration Isolation

Excellent Vibration Isolation for High Load Precision Research Instruments



FEATURES

- Active Isolation from 1 Hz to 200 Hz
- Passive Isolation beyond 200 Hz
- 5-20 milli second response
- Easy to install, simple to use
- Designed for years of continuous, trouble-free use
- Compact, modular form provides great versatility

BENEFITS OF ACTIVE ISOLATION

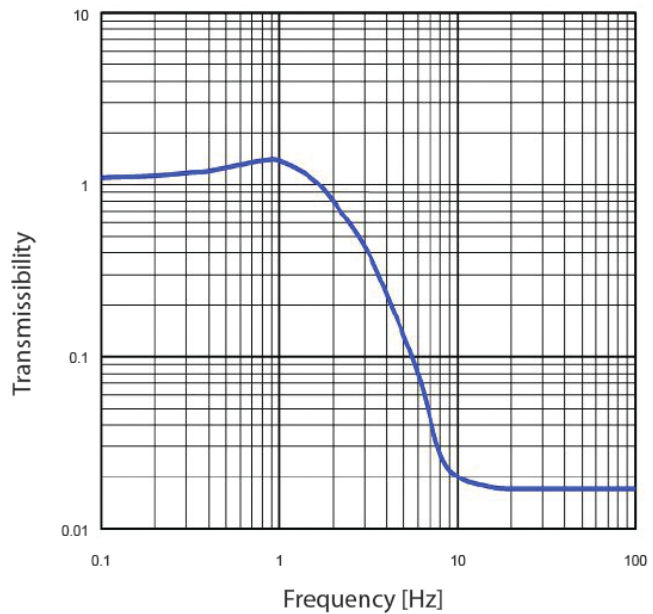
Active Isolation systems sense input vibrations and dynamically damp them out.

- Isolates in all 6 degrees of freedom
- Internal feedback loop damps all mechanical resonances
- Provides excellent vibration isolation at low frequencies
- No low frequency resonance and no air required

APPLICATIONS include

- SEM
- TEM
- UHV-SPM
- Lithography
- Spectrometry
- High Precision Metrology
- Other High Precision Instruments

TRANSMISSIBILITY





AVI-400

Active Vibration Isolation

The modular, easy to install design of the AVI-400 allows for versatility and general applicability to a myriad of instruments requiring high performance vibration isolation.



AVI-400 System Supporting Carl Zeiss Sigma VP SEM

MODEL	MODULE DIMENSIONS	LOAD CAPACITY (PER MODULE)
AVI – 400	W 7.5" x D 28" x H 4.5"	300 Kg / 660 Lbs
AVI – 400 Extra	W 7.5" x D 28" x H 4.5"	360 Kg / 792 Lbs
AVI – 400 Plus	W 7.5" x D 28" x H 4.5"	420 Kg / 924 Lbs
AVI – 400S	W 7.5" x D 14.2" x H 4.5"	300 Kg / 660 Lbs

TECHNICAL SPECIFICATIONS

Isolation Range	Active: 1 - 200 Hz; Passive: >200 Hz
Transmissibility	Above 10 Hz transmissibility < 0.017 (-35 dB)
Module Size	W 7.5" x D 28" x H 4.5" (AVI-400)
Module Weight	40 KG / 88 Lbs
Static Compliance (per module)	
Vertical	Approx. 1.7 µm / N
Horizontal	Approx. 3.4 µm / N
System Noise	less than 50nG/√Hz
Power Consumption	18 W typical
Input Voltage	90 - 125 VAC / 200 - 250 VAC, 50 - 60 Hz
Controller Dimensions	48 x 13 x 25 cm / 19 x 5.1 x 9.8"
Performance Monitoring	A multiplexed signal for display on oscilloscope shows sensor parts with and without isolation.

