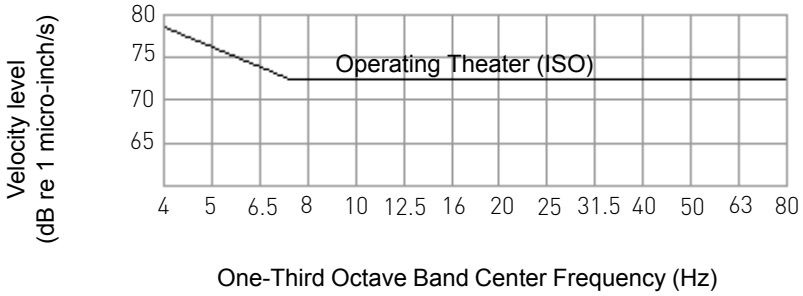
Vibration Isolation

Operating Environment

The probe station is intended for use in an environment having background vibrations at or below the Operating Theater level. This corresponds to a maximum level of 4000 micro-inches/sec (72 dB) measured using the 1/3-octave-band velocity spectra method (expressed in RMS velocity as specified by ISO, the International Organization for Standardization).



Criterion curve	Operating Theater (ISO)
Max level micro-in./sec(dB)[a]	4000 (72)
Detail size microns[b]	25
Description of use	Vibration not felt. Suitable for sensitive sleep areas. Suitable in most instances for microscopes to 100X and for other equipment of low sensitivity.

a. As measured in one-third octave bands of frequency range 8-100 Hz. The dB scale is reference to 1 micro in./sec.
b. The detail size refers to the line widths of microelectronics fabrication, the particle (cell) size for medical and pharmaceutical research, etc. The values given take into account the observation that the vibration requirements of many items depend upon the detail size of the process.

Installation on Raised Floors

Typical floor vibrations occur in the range of 8 to 80 Hz. All vibration dampening systems work by shifting the resonant frequency down below this 8 Hz threshold, typically in the 1.5 to 5 Hz range. Where significant floor vibrations occur at these resonant frequencies, unacceptable vibrations in the equipment can occur.

When installing the probe station on a raised floor, we recommend installing tripod type mounts so that the probe station is anchored to the sub-floor, especially if very sensitive, long-duration measurements are to be made. Several manufacturers provide these type of mounts; one such company is Technical Manufacturing Corporation (TMC) (www.techmfg.com).

Vibration Isolation

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