Nano-METZ

Features

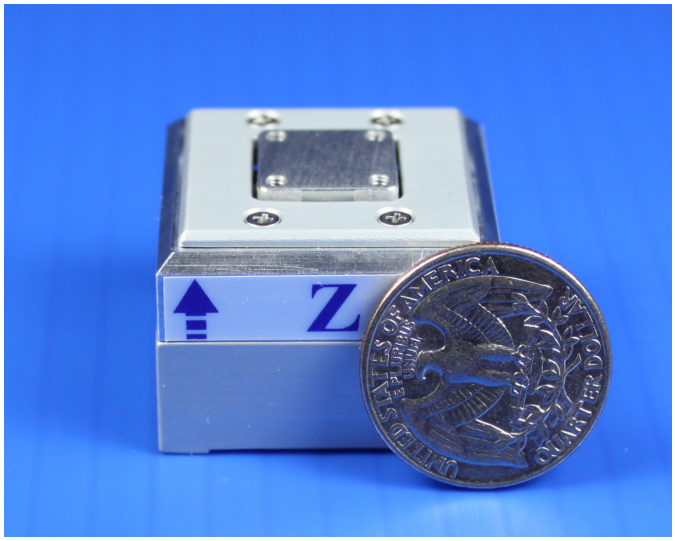
- *Ultra-fast response*
- *Femtometer noise floor*
- *High stability*
- *Closed loop control*
- *Compact size*
- *Picometer positioning resolution*
- picoQ *sensor technology*

Typical Applications

- *High speed, high resolution positioning*
- *Metrology*
- *AFM*
- *SPM*

LabVIEW Compatible USB Interfaces

Examples, tutorial, and Nano-Route® 3D supplied with Nano-Drive® USB interfaces.



Product Description

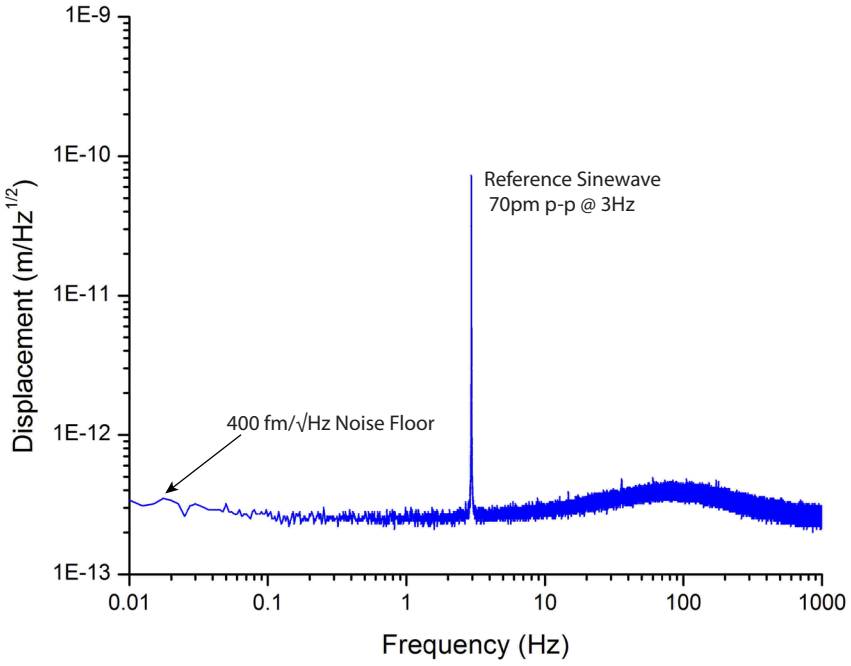
The Nano-METZ is a compact z-axis nanopositioning system designed for high speed scanning and ultra-low noise characteristics for demanding AFM and metrology applications. The innovative design of the Nano-METZ coupled with our proprietary PicoQ® sensor technology yields a resonant frequency of 14.5kHz and a noise floor of 400 femtometers/√Hz. The result: unparalled speed, response and precision for the most demanding and discerning metrology applications. Related products include the Nano-MET2, Nano-MET3, Nano-MET10 and Nano-MET20 nanopositioning systems.

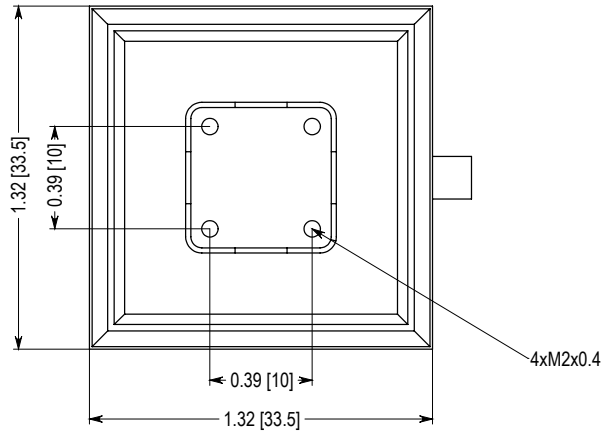
Technical Specifications

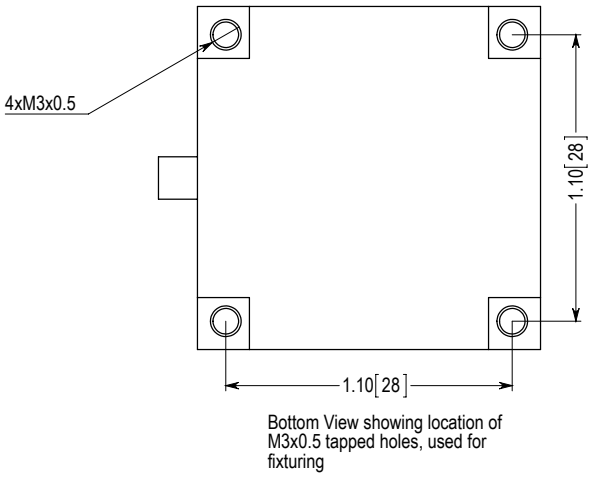
Range of motion	5 µm
Resolution	0.005 nm
Resonant Frequency	14.5 kHz
Recommended max. load (horizontal)*	0.1 kg
Recommended max. load (vertical)*	0.1 kg
Body Material	Al or Titanium
Controller	Nano-Drive®

* Larger load requirements should be discussed with our engineering staff.

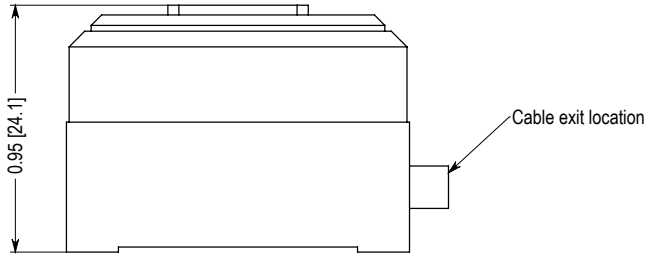
Low Position Noise







Bottom View showing location of M3x0.5 tapped holes, used for fixturing



Dimensions in Inches [mm]