

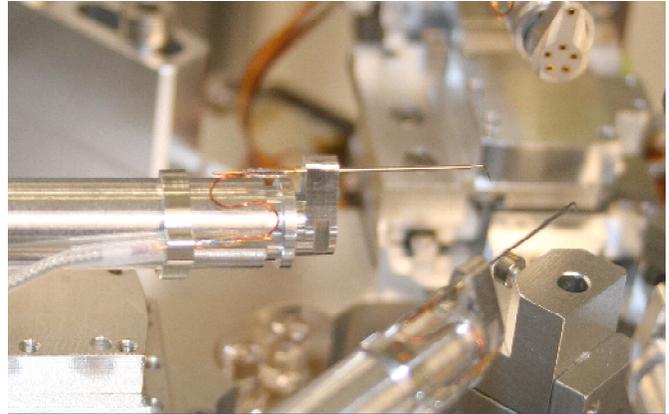
Zyvex Applications Packages

Enhanced Functionality for Zyvex Nanomanipulator Systems

Low Noise Characterization

The Low Noise Characterization Package upgrades an S100 or sProber system with custom cabling to electrically measure lower currents. The package consists of dedicated triax lines running from the parametric analyzer (PA) to a custom designed Zyvex Triaxial Feedthrough and vacuum compatible mini-triax cables from the feedthrough to the probes. All of the cables are routed around the nanoprobe head for clean operation. The package can provide one to two orders of magnitude better measurement accuracy allowing for characterization of phenomena never before possible.

Specs: Cabling: Triaxial from the PA to each probe
Measurement Resolution: 0.1 fA
Peak to peak noise: Less than 200 fA
DC Leakage: Less than 50 fA @ 5V

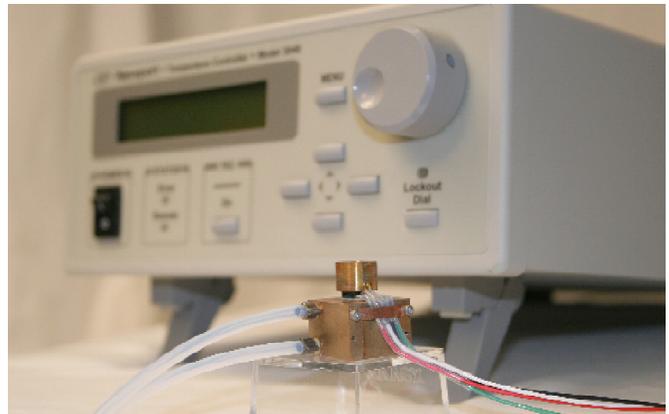


The low noise triaxial cable attaches directly to the probe and provides superior electrical performance.

Temperature Characterization

The Temperature Characterization Package is the complete solution for thermal probing in an SEM. The package includes a hot/cold sample stage, a temperature controller which is integrated with and easily controlled by the main Zyvex software, a feedthrough flange designed for the SEM, as well as all required electrical and mechanical connections. The hot/cold sample stage replaces the Z sample stage in the sProber and mounts on the X, Y, Z stage in the dProber and nProber. The hot/cold sample stage can be easily and quickly installed and removed by the user.

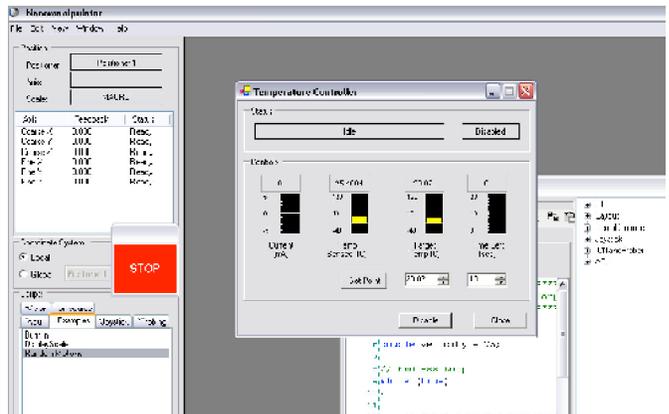
Specs: Low Temp: -20C
High Temp: 120C
Temp. Resolution: 0.01C
Temp. Accuracy: Better than 2C
Temp. Stability: 0.1C
Heating Ramp rate:
Variable - Less than 10 minutes from 20C to 120C
Cooling ramp rate:
Variable - Less than 10 minutes from 20C to -20C
Sample Size: 12mm X 12mm X 3mm
Heat transfer gas used: Nitrogen



Zyvex Temperature Characterization package includes a high accuracy controllers and a removable thermal sample stage.

To place an order, call us toll-free at **1.877.ZYVEX99 (1.877.998.3999)** ext. 271 or direct at **972.792.1671**. For the most up-to-date information, please visit our web site at www.zyvex.com or email sales@zyvex.com.

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The Temperature Characterization Module in Zyvex's Nanomanipulator software integrates the entire system.