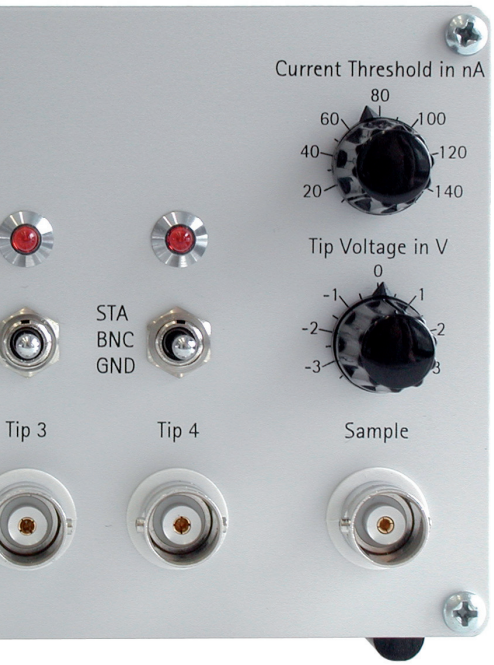
STA Safe Tip Approach

The STA tool is a tunnel current sensor for the MM3A-EM micromanipulator system and the LCMK-EM plug-in. It enhances your system by providing a simple, accelerated and secure method for approaching the surface of conductive samples.



The STA offers a valuable time reduction and greatly reduces the risk of damaging the probe tip and the sample when approaching a region of interest. It can also be used to test the resistance of contacts e.g. the drain of an FET.

Your existing MM3A-EM micromanipulator system can be quickly and easily upgraded for use with the STA.

Applications

- Failure analysis
- Qualification of high κ gate materials
- Low-current transistor measurement
- EBIC/RCI analysis
- Electrical characterization of advanced materials e.g. nanowires, ultra-thin films

Technical specifications

- Tip voltage range -3 to +3 V
- Tunneling current threshold 10 to 150 nA
- Probing current range 25 pA to 100 mA
- Maximum probing voltage 100 V
- Probing signal resistance 7.0 Ω
- Time constant of alarm circuit 1 ms
- Consumption per channel ± 5 V / 15 mA

Further information

- Contact us at info@klendiek.com
- Find your local agent at www.klendiek.com