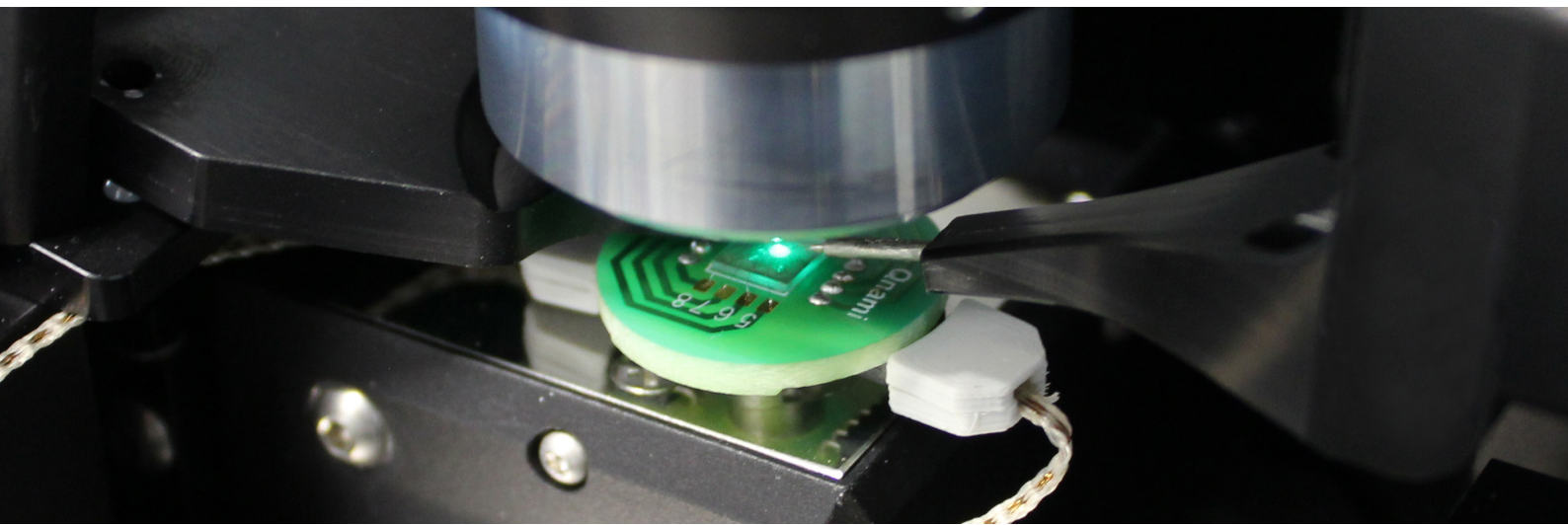


Vario PQ

Characterize devices in working conditions

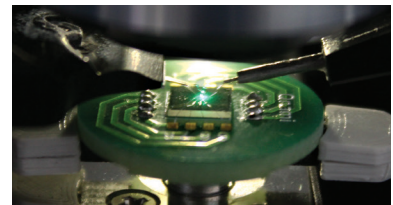


Product Overview

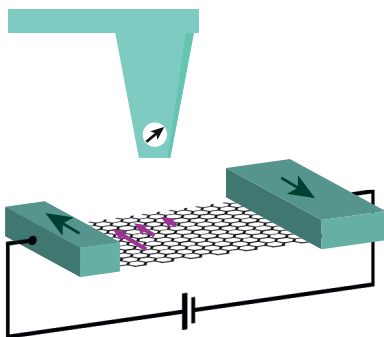
Vario PQ allows the application of external currents and voltages to the sample, while performing scanning NV measurement. It consists of 8 separate electric lines which are provided to the sample holder via 2 x 2 twisted pair cables.

Technical Specifications

- Operation mode:
 - Limits for signal transmission: $100 V_{RMS}/150 V_{peak}$ per pin
 - Limits for power transmission: 22.5mA per pin
- Total amount of leads: 4x2
- Nominal cable length (2x twisted pairs): 20 cm
- Frequency range: DC - 1MHz
- Micro D-Sub connector
- Operation conditions:
 - temperature: -55°C to 100°C
 - humidity: < 75%

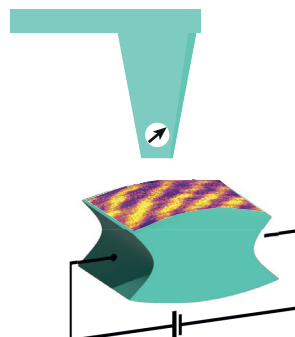


Applications



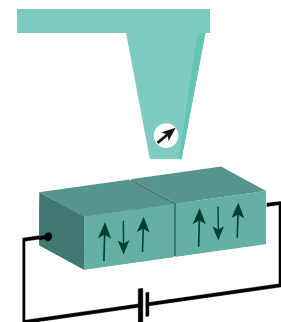
Transport measurement in 2D materials

Sample: Graphene
Nature 583, 537–541 (2020)
PI: R. L. Walsworth, University of Maryland



Multiferroics magnetic textures under piezo induced strain

Sample: BiFeO₃
Nat Commun 11, 1704 (2020)
PI: Garcia, Unité Mixte de Physique, CNRS, Thales



Domain switching in antiferromagnetic MRAM

Sample: Cr₂O₃
Nat Commun 8, 13985 (2017)
PI: D. Makarov, Helmholtz-Zentrum Dresden



Qnami ProteusQ™

Combine Vario PQ with Qnami ProteusQ scanning NV microscope for direct quantitative measurement of the effect of currents and voltages applied on your sample.