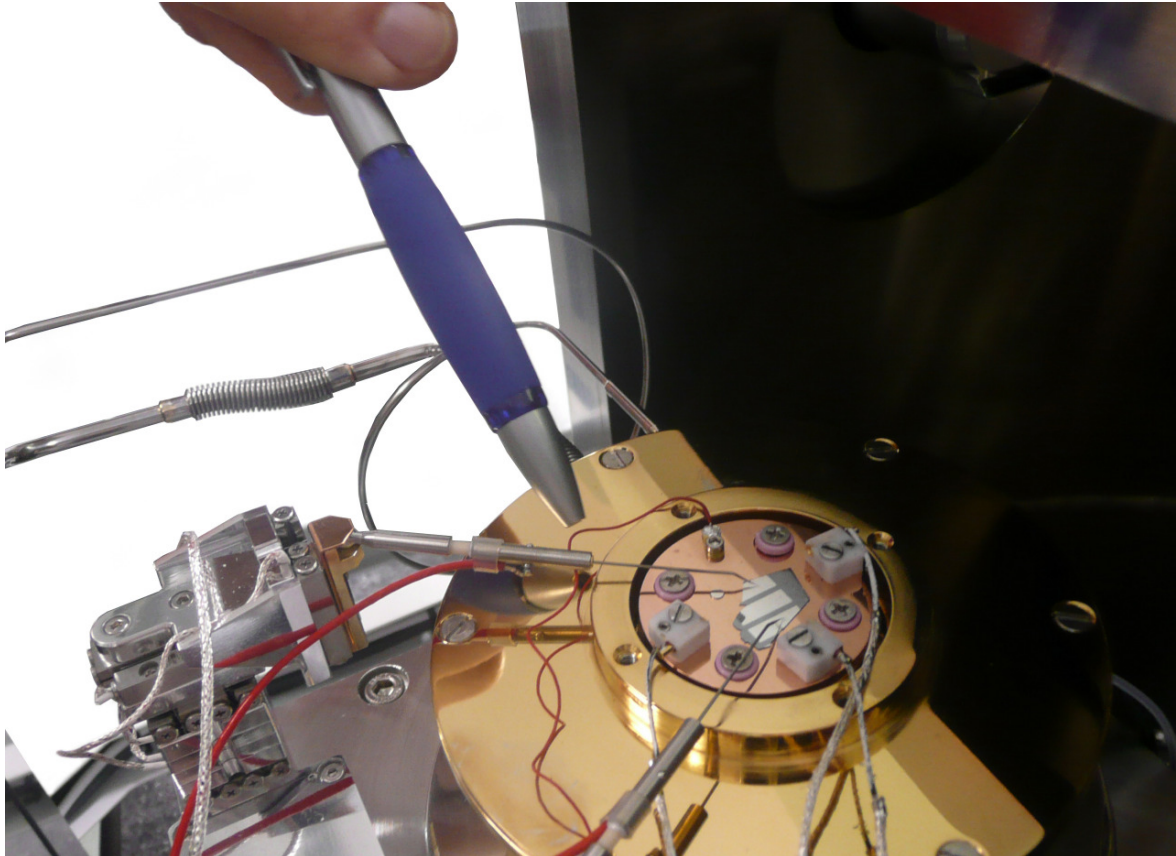


Low Temperatures

Cyro-Stage 5 Kelvin A Substage: Prober-Module with three Manipulators



Close-up View of the Cyro-Prober Module

At the left in this photo there is the front plate of the stage with the built-in-Z-drive. The SE-detector is located about two o'clock in this view. The Cryo-Module is mounted in a "nest" on the working platform in the XY-table. At lower left, the liquid Helium inlet is made as a double-wall tube system.

The Prober Module is mounted on four standoffs as "second level" on the working platform. The three manipulator-arms hold the drums with the bending piezo elements. Their movement is controlled extremely precise from an external voltage controller. This provides the fine touchdown movement, free of play and backlash. The needle holders are made as "Kelvin Connections".

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Australia & New Zealand by
AXT Pty. Ltd.
1/3 Vuko Pl., Warriewood
NSW 2102 Australia
T. +61 (0)2 9450 1359 F. +61 (0)2 9450 1365
W. www.axt.com.au E. info@axt.com.au