



SQUIDViewer

MAGNICON

physical research and instrumentation

SQUIDViewer – Easy access to all parameters!

Our LabView® based control software for Windows® is the most convenient way to adjust and supervise your SQUID system.

- SQUIDViewer™ was developed in close collaboration with experienced SQUID scientists and users and gives you all the flexibility you need.
- The modular software concept allows easy access and adjustment of all electronics parameters. Save and reload various workspaces for different measurement tasks.
- Complete electronics parameter sets can be saved to and reloaded from a hard-disc. These clear-text files allow easy archiving and fast access to your measurement parameters. To allow stand-alone operation of the electronics without connection to a PC, the electronics state can also be saved into the on-board EEPROM. This saved state is reloaded each time power is turned on even if no computer is connected to the system.
- The implemented heater automatic can optionally set the electronics into an optimum heating state to get reliable results. With two integrated waveform generators, all electronics current and voltage sources can be modulated with a variety of waveforms to allow sensor characterization, calibration and testing without the need of external sources.
- Basic parameters like board temperature, preamplifier input voltage and electronics output voltage are monitored via integrated 10-bit analog-to-digital converters.



SQUIDViewer main window



Bias palette



Generator palette

Technical Data

- runs on 2000/XP/Vista/7
- undo/redo functionality
- power check to detect wrong or damaged power supply
- automatic firmware updates
- firmware integrity check on start-up
- save and reload different workspaces
- save and recall electronics setup files
- optional transparent and colored windows
- remote control via TCP/IP
- record and run macros
- communication via RS-232 or USB
- ASCII command protocol for communication with SQUID electronics
- convenient Windows DLL for easy system integration
- especially developed controls for optimum working point adjustment
- heater automatic for reliable heating results
- two integrated waveform generators
- free software updates for customers



A modern way of SQUID electronics control software

SQUIDViewer™ is constantly enhanced and suggestions and experiences of our customers are always welcome. General SQUIDViewer™ updates are free for our customers. User-specific features and modifications are possible at reasonable prices.

Customers who integrate Magnicon SQUID electronics into their own products are provided with the command protocol and the Windows DLL to gain full control of the electronics. This simplifies the integration into existing software projects.