MiST

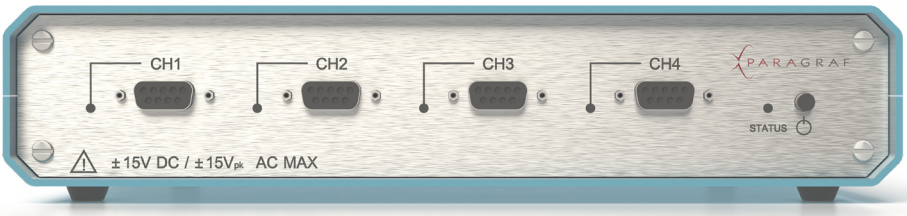
PARAGRAF
LEADING THE WAY
IN GRAPHENE ELECTRONICS

Multi-Sensor Test Kit

Paragraf's patented 2D graphene deposition technique allows our Graphene Hall Sensors (GHS) to deliver high-quality, ultra-high-resolution magnetic field measurements across a wide spectrum of operating conditions and environments.

To provide our customers with a greater ability to enjoy the full benefit of our industry-leading technology, we have developed the MiST data acquisition unit. MiST provides a self-contained, turn-key solution for the easy configuration and operation of multiple GHS for a wide range of applications.

The array of configuration functions that MiST offers results in the best-achievable acquisition chain for magnetic field measurement using Paragraf GHS.



Operation

Windows-based software is provided for the easy setup and use of the system, with an optional set of software libraries for advanced configurations.

Through the software application, operators may dial in a specific, constant current supply to each individual GHS ranging from 100 nA to 5 mA.

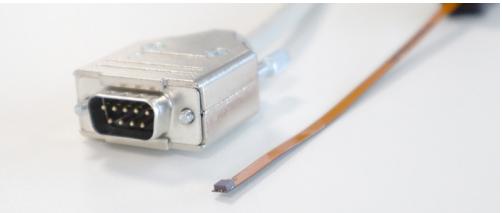
The operator may also use the software to perform a suite of tasks to optimise sensor performance, including:

- pre-amplification
- removal of offset readings from stray fields
- employ the switching (spinning-current method) function to remove pink (1/f) noise, and any remaining offset components

This occurs before the digitisation and transfer of the magnetic field data to the PC (data collection rate up to 20 kHz).

Accessories

For easier connection of the Paragraf GHS to the MiST, a range of compatible sensor probes are available.



Physical Specifications

- Dimensions: 250 x 250 x 50 mm
- GHS connections: four 9-pin, D-sub connector ports at the front of the unit
- Communication: Ethernet port, directly to your PC or a local area network
- Power: 12 VDC 2.1 mm socket, for use with a universal mains adaptor (supplied)

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