

Multi Sensor Test Unit

EGHKA02XXX



Paragraf's Multi Sensor Test Unit provides a self-contained, turn-key solution for the easy configuration and operation of up to four Graphene Hall Sensors (GHS) for a wide range of applications.

Paragraf's patented 2D graphene deposition technology enables our GHS to deliver high-quality, ultra-high-resolution magnetic field measurements across a wide spectrum of field strengths, operating conditions and environments.

The array of configuration functions that the test unit offers results in the best-achievable acquisition chain for magnetic field measurement using the GHS series of sensors.



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 can dial in a specific, constant current supply to each individual GHS ranging from 100 nA to 5 mA.

Optimisation functions occurring before the digitisation and transfer of the magnetic field data to the PC (data collection rate up to 20 kHz) include:

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

Accessories

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



Physical Specifications

- Dimensions: 195 (w) x 84 (h) x 295 (d) mm
- GHS connections: four 9-pin, D-sub connector ports at front of unit
- Communication: Ethernet port, direct to PC or local area network
- Power: 12 V DC 2.1 mm socket, for use with universal mains adaptor (supplied)

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