



NANOMAGNETICS
INSTRUMENTS

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Statement of NanoMagnetics Instruments Northern Ireland Ltd. Exclusive Manufacturer Declaration

Date: 25 June 2024

To Whom It May Concern,

We as NanoMagnetics Instruments Northern Ireland Limited; hereby declare that our "2.2K / 2T Cryostat for Quantum Hall Effect Measurements" with the following specifications is designed and manufactured solely and exclusively by our company and does not involve any third-party manufacturer and contractor in its production process.

Low Temperature 2T Cryogen-Free Cryostat with Hall Effect Measurement System Integrated variable temperature insert, which controls sample temperature from 2.2K to 300K:

- Suitable for Hall Effect studies
- Electromagnet with ± 2 Tesla magnetic field at 25mm pole face and 10mm pole gap
- Hall bar, van der Pauw sample geometries.
- Sample sizes from (5 x 5 mm) up to (15 x 15 mm) and from 1mm to 3mm thickness, (Bigger sizes are optional)
- Pin connectors for quick and easy placement of the sample holder,
- 4 or 6 contacts to the sample

Cryogenics & ElectroMagnet

- Cryogen-free cryostat operates in a temperature range <2.2K – 300K
- A closed cycle RDC-02K Sumitomo GM Cryocooler with CAN-11B/C air cooled compressor
- Circulating water-cooling unit will be provided to cool the magnet
- <2.2K-300K Calibrated CERNOX thermometer and heater at sample holder
- Calibrated Pt100 & Cernox Chip Thermometer for GM Cryocooler's 1st & 2nd stages
- 4 Channel Temperature Controller. The PID parameters can be controlled via provided software.
- All the stainless-steel vacuum hoses & valves supplied (pump is not supplied)
- Bipolar Magnet Power Supply
- Gaussmeter & Hall Sensor

Furthermore, NanoMagnetics Instruments NI Ltd. affirms that “2.2K / 2T Cryostat for Quantum Hall Effect Measurements” complies with all relevant industry standards and regulatory requirements. Our manufacturing processes adhere strictly to quality assurance protocols to ensure the reliability and safety of each unit produced.

We maintain rigorous control over the entire production chain, from sourcing raw materials to final assembly, packaging and distribution. This commitment guarantees that every product bearing our name meets the highest standards of performance and durability.

As the exclusive manufacturer, we stand behind the integrity of our product and are committed to providing exceptional customer service and support.

This declaration is made in good faith to protect the interests of NanoMagnetics Instruments NI Ltd. and its customers, ensuring transparency and accountability in our manufacturing practices.



Dr. Ahmet Oral