



NSAI

National Metrology Laboratory

Ensuring Confidence in Measurement

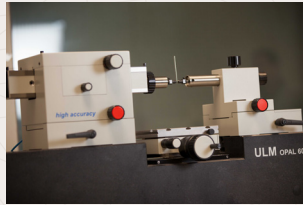


www.nsai.ie

National Measurement Standards

NML is the National Metrology Institute for Ireland and is responsible for establishing, maintaining and developing the national measurement standards for physical quantities. It disseminates these standards to Irish users via a calibration service. The measurement standards maintained by the NML are the most accurate representations of the International System of Units (SI) available in Ireland and provide the gateway by which measurement results can be traced to the SI.

NML maintains measurement standards and associated calibration services in the fields of Acoustics, Electricity, Force, Frequency, Humidity, Length, Mass, Pressure, Temperature and Torque. These standards support organisations ranging from SME's to multinational companies, providing them with access to state-of-the-art measurement facilities, an efficient and responsive calibration service as well as advice and awareness on measurement issues.



Calibration & Measurement Training

- 1/2 day to 2 day intensive courses
 - Training in all aspects of metrology
 - Emphasis on laboratory practicals
 - Comprehensive handouts provided
 - Course tutors are NML technical staff
 - Tailored Metrology courses to meet client's needs
- For full information on NML training visit www.nsai.ie*

Proficiency Testing and Consultancy

Participation in proficiency tests and measurement audits / comparisons is an ideal way of objectively demonstrating the technical competence of a laboratory. Achieving an acceptable result in such a comparison exercise provides concrete evidence of a laboratory's claimed measurement capability.

- Consultancy in most areas of metrology provided
- Tailored to meet individual needs
- A large range of artefacts available for measurement audits
- An objective assessment of laboratory calibration capabilities
- Meets INAB accreditation requirements

NML Calibration Services

Mass Laboratory Capabilities

Mass calibration is provided for standard masses from industrial M Class up to precision E1 Class in the range 1 mg - 1000 kg
Weight refurbishment service

Temperature & Humidity Laboratory Capabilities

Temperature range: -196 °C to +660 °C
Humidity range 5 %rh - 95 %rh

Pressure Laboratory Capabilities

Gas pressure (Gauge & Absolute)
up to 7 MPa
Hydraulic pressure up to 100 MPa

Acoustics Laboratory Capabilities

Sound Level Calibrators
Sound Level Meters (IEC 61672)
Sound Level Meters (IEC 60651/804)

Electrical Laboratory Capabilities

Electrical Standards (Voltage, Resistance, Capacitance, Inductance, Frequency)
Multifunction & Process Calibrators
Multimeters
Frequency Counters
Other Electrical Measuring Instruments

Length Laboratory Capabilities

Precision length, angle and diameter gauges (pins, plugs, etc)
Gauge blocks
Calipers / Micrometers
Glass Scales / Graticule
Co-ordinate Measurement
Rulers / Steel Tape / Glass Rule
Other Dimensional Instruments

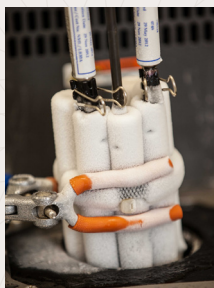
Force Laboratory Capabilities

Compression: 0 - 100 kN
Tension: 0 - 20 kN

Torque Laboratory Capabilities

0 - 1000 Nm

Find full details of the calibration services offered by NML on www.nsai.ie



Certified and Internationally Recognised Mutual Recognition Arrangement



NML is a signatory to the Mutual Recognition Arrangement (MRA) of the International Committee of Weights and Measures (CIPM). The CIPM MRA provides for mutual recognition of national measurement standards and of calibration certificates issued by national metrology institutes world-wide.

The use of the CIPM MRA logo is issued under the authority and with the permission of the BIPM. The BIPM is an intergovernmental organization established by the Metre Convention, through which Member States act together on matters related to measurement science and measurement standards. By placing the logo on a calibration certificate, NML is indicating that the calibration falls within NML's calibration and measurement capabilities (CMCs) published under the CIPM MRA.

CMCs can be viewed & downloaded at <http://kcdb.bipm>

Contact us to discuss your measurement needs

NML aims to provide the best possible technical support and measurement services to Irish-based industry through our staff who have extensive technical knowledge and expertise. If you would like to discuss your measurement needs, please contact us.

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