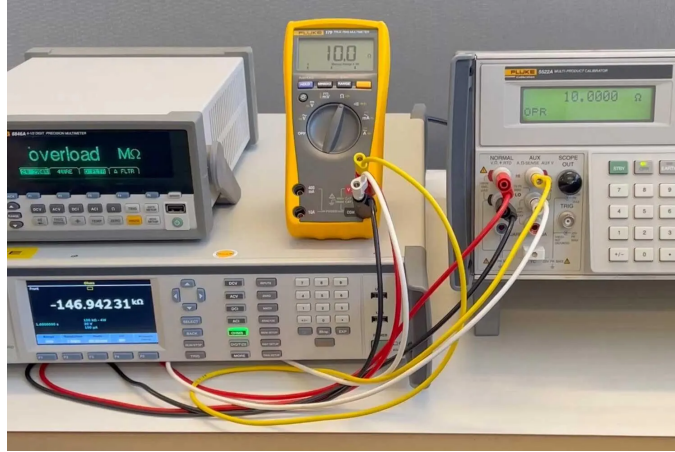


Electrical Calibration Services

Traceable calibration with documented measurement uncertainty for electrical test and measurement



Calibration of electrical test and measurement instruments against traceable reference standards

Calibration establishes the relationship between the values shown by an instrument and the corresponding values realised by a measurement standard. At Mizan, each electrical instrument is compared against reference standards traceable to national and international standards, and every result is reported together with its measurement uncertainty on a calibration certificate.

What We Calibrate

- **Meters & measurement instruments**
 - Digital multimeters – bench and handheld
 - Clamp meters and current probes
 - Insulation resistance and earth / ground testers
 - Micro-ohmmeters and milliohm meters
- **Power & energy instruments**
 - Power quality analysers and power loggers
 - Wattmeters and energy meters
 - Clamp-on power meters
 - Panel meters and indicators
- **Sources & calibrators**
 - Multifunction and multiproduct calibrators
 - Voltage, current and resistance sources
 - Decade boxes and reference standards
 - Loop and process signal calibrators
- **Time, frequency & signal**
 - Oscilloscopes and signal generators
 - Frequency counters and timer / counters
 - Function generators and LCR meters
 - Capacitance and impedance standards

Every calibration is a documented comparison to a traceable reference – measured, not estimated



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Traceability & Uncertainty

Every calibration result is linked, through an unbroken chain of comparisons, to national and international measurement standards. The reference standards used are themselves calibrated by accredited and national laboratories, establishing traceability to the SI.

- Reference standards calibrated by accredited or national laboratories
- An unbroken chain of comparisons traceable to the SI
- Expanded uncertainty evaluated to the GUM (ISO/IEC Guide 98-3)
- Results reported at a coverage factor of $k = 2$, about 95% confidence

The Calibration Certificate

Each calibration is documented on a certificate that records:

- Identification of the instrument and the reference standards used
- As-found and as-left readings at each calibration point
- The measurement result with its expanded uncertainty
- Ambient conditions during the calibration
- A statement of metrological traceability
- Calibration date and recommended recalibration interval

The Calibration Process

Every instrument follows a defined, documented calibration process. Its condition is recorded before any adjustment is made and verified again afterwards, so that the calibration is repeatable and the result can be relied upon.



Calibrations are performed under controlled environmental conditions by trained personnel, following documented procedures and using reference standards traceable to national and international standards.

Measurement you can trace. Uncertainty you can see.



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