NATIONAL MEASUREMENT SCIENCES

CALIBRATION ■ VALIDATION ■ SALES ■ SERVICE

Edition 2027

Traceable calibration

Calibration Capability Catalogue

Traceable calibration for more than 175 instrument types across 14 measurement disciplines — performed on-site at your facility.

WHAT WE CALIBRATE

- Mass & Weighing
- Temperature & Humidity
- Pressure
- Force & Torque
- Electrical
- Dimensional
- Volume
- Analytical
- Flow & Level
- Acoustic & Optical
- Gas Measurement
- Time & Speed
- Sterilisation
- Others

SCALE CALIBRATION

Scale Calibration Pty Ltd
trading as National Measurement Sciences

www.scalecalibration.com.au

Measurement you can trace

Scale Calibration Pty Ltd, trading as National Measurement Sciences, builds on more than 12 years of weighing and calibration service. We bring calibration, validation, sales and service together, so one team can look after the instruments your quality system depends on.

WHAT WE DO

Calibration
Traceable calibration on-site at your facility.

Validation
Performance checks for enclosures, sterilisers and process equipment.

Sales
Measuring and weighing equipment for lab and industry.

Installation
Set-up and commissioning of new instruments and scales.

Repair & maintenance
Adjustment, servicing and repair to keep equipment in tolerance.

Consultation
Practical advice on measurement, uncertainty and compliance.

HOW IT WORKS

1 **Tell us** what you have — a single instrument or a full equipment register.

2 **We calibrate** on-site, so your equipment stays where it is used.

3 **You receive** a certificate with measured results and traceability.

4 **We fix** what is out of tolerance — adjustment or repair on request.

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About our certificates. Calibrations listed in this catalogue are traceable calibrations: reference standards are traceable to the SI through national measurement institutes, and certificates report measured results with their measurement uncertainty. They are not issued as accredited calibrations.

CATEGORY 01

Mass & Weighing

Weighing is where Scale Calibration began. We calibrate the weights you check with and the instruments you weigh on — from microbalances in the laboratory to pallet, crane and process weighing systems on the factory floor.

WEIGHTS

- Mass sets
- Individual weights

LABORATORY WEIGHING

- Analytical & precision balances
- Microbalances
- Moisture balances
- Mass comparators

INDUSTRIAL SCALES

- Bench scales
- Platform scales
- Pallet scales
- Pallet jack scales
- Forklift scales
- Crane scales
- Spring scales

PRODUCTION & INLINE WEIGHING

- Checkweighers
- Multihead weighers
- Carton weighers
- Bag weighers
- Belt weighers

PROCESS & VESSEL WEIGHING

- Hopper weighing systems
- Silo weighing systems
- Tanks & vessels

LOAD CELLS & COMPONENTS

- Load cells
- Digital load cells
- Load cell amplifiers
- Weigh beams

More than calibration

We also supply, install, repair and maintain weighing equipment — from a single bench scale to a complete line of checkweighers.

CATEGORY 02

Temperature & Humidity

Thermometers and sensors, humidity instruments, and the temperature-controlled equipment they monitor — from cryogenic baths to muffle furnaces.

THERMOMETERS & SENSORS

- Digital thermometers
- Dial thermometers
- RTD thermometers
- Thermocouples
- Surface temperature probes
- Infrared thermometers & pyrometers
- Thermal imaging cameras
- Temperature indicators & controllers

HUMIDITY & ENVIRONMENTAL MONITORING

- Hygrometers
- Dew point meters
- Environmental meters
- Environmental monitoring systems

TEMPERATURE SOURCES & ENCLOSURES

- Dry blocks
- Water baths, dry baths & heating mantles
- Cryobaths
- Ovens — drying & vacuum
- Furnaces & muffle furnaces
- Incubators & refrigerated incubators
- Freezers & refrigerators
- Stability chambers
- Temperature & humidity chambers
- Proving cabinets
- Temperature enclosures

Your equipment stays put

Fridges, freezers, incubators, ovens and chambers are calibrated on-site using multi-channel reference loggers, with results for each sensor location.

CATEGORY 03

Pressure

Gauge, absolute and vacuum pressure instruments — from analogue dial gauges to the transmitters and switches that control your process.

GAUGES & INDICATORS

- Pressure gauges
- Digital pressure gauges & indicators
- Manometers
- Vacuum gauges
- Barometers & absolute pressure
- Blood pressure monitors

TRANSMITTERS, SWITCHES & CALIBRATORS

- Pressure transducers & transmitters
- Pressure switches
- Pressure calibrators
- Pressure loggers

CATEGORY 04

Force & Torque

Hand-held force and torque tools through to the materials testing machines used in production and quality labs.

FORCE

- Force gauges & digital force gauges
- Tension meters

TORQUE

- Torque wrenches & digital torque meters
- Torque transducers

MATERIALS TESTING MACHINES

- Tensile testing machines
- Compression testing machines
- Universal testing machines

CATEGORY 05

Electrical

Meters, sources, electrical safety testers and signal instruments for workshops, test labs and electrical contractors.

MULTIMETERS

- Digital multimeters — handheld
- Digital multimeters — benchtop, up to 6½ digits

METERS & INDICATORS

- Clamp meters
- Voltmeters & true-RMS voltmeters
- Ohm meters (micro, milli, mega)
- Low resistance meters
- Insulation multimeters
- Digital indicators
- Scope meters
- Loop current meters
- Millivolt potentiometers

SOURCES & STANDARDS

- Multifunction calibrators
- Power supplies
- Resistance standards
- Resistors
- Decade resistance boxes
- Feedthrough terminators
- Load boxes

ELECTRICAL SAFETY TESTERS

- Insulation & earth resistance testers
- Hipot & high voltage testers
- Hipot tester resistors
- RCD testers
- Portable appliance testers
- Line testers
- Load testers
- Resistance testers
- Phase rotation indicators
- Phase location indicators
- Wrist strap testers

SIGNAL, FREQUENCY & PROBES

- Oscilloscopes
- Frequency counters
- Universal counters
- Differential probes
- High voltage probes
- High voltage differential probes

CATEGORY 06

Dimensional

Hand measuring tools, fixed gauges and length standards for machine shops, inspection rooms and laboratories.

HAND MEASURING TOOLS

- Digital & vernier calipers
- Micrometers
- Depth gauges
- Height gauges
- Dial indicators & dial gauges
- Thickness gauges
- Width gauges
- Stem gauges
- Rulers & tape measures
- Protractors & digital angle finders
- Engineer's squares

GAUGES & LENGTH STANDARDS

- Gauge blocks — single & sets
- Length bars & balls
- Pin gauges
- Plug gauges
- Ring gauges
- Thread gauges
- Go / no-go gauges
- Feeler gauges
- Radius gauges
- Stage micrometers

CATEGORY 07

Volume

Piston-operated volumetric apparatus and laboratory glassware, calibrated gravimetrically following ISO 8655 and ISO 4787 methods — on-site at your facility.

PISTON-OPERATED VOLUMETRIC APPARATUS (POVA)

- Pipettes — single & multichannel
- Burettes
- Dispensers
- Diluters
- Syringes

GLASSWARE

- Glass pipettes
- Glass burettes
- Volumetric flasks

CATEGORY 08

Analytical

Laboratory meters for water quality, food and pharmaceutical testing, calibrated against certified reference materials.

ANALYTICAL INSTRUMENTS

- pH meters
- Conductivity meters
- TDS meters & testers
- Density meters
- Viscosity meters
- Refractometers
- Water activity meters
- Moisture meters & analysers

CATEGORY 09

Flow & Level

Liquid and gas flow, air velocity and level instruments used in process plants, HVAC and cleanrooms.

FLOW

- Flow meters
- Flow transmitters
- Mass flow meters

AIR FLOW & VELOCITY

- Air flow meters
- Air flow hoods
- Anemometers & hot-wire anemometers

LEVEL

- Level indicators & level sensors
- Liquid level instruments

CATEGORY 10

Acoustic & Optical

Sound and light measurement for workplace safety and laboratories, plus absorbance instruments and microscopes.

ACOUSTIC

- Sound level meters
- Sound level calibrators

OPTICAL

- Lux meters
- Illuminance meters
- Light meters
- Photometers
- Spectrophotometers
- Microscopes

CATEGORY 11

Gas Measurement

Portable and fixed gas detection for confined spaces, workplaces and combustion processes.

GAS INSTRUMENTS

- Gas analysers & gas detectors
- Oxygen analysers & sensors
- CO_2 meters & CO analysers
- Gas detection kits

CATEGORY 12

Time & Speed

Rotational speed, timers and temperature on the laboratory equipment that keeps samples moving.

LABORATORY ROTATIONAL EQUIPMENT

- Centrifuges & microcentrifuges
- Refrigerated centrifuges
- Shakers & vortex mixers
- Stirrers — heated & magnetic
- Mixers
- Homogenisers
- Blenders
- Bag mixers

TIMING & SPEED INSTRUMENTS

- Stopwatches
- Timers
- Photo tachometers

CATEGORY 13

Sterilisation

Temperature, pressure and time performance checks on the sterilisers used in healthcare, pharmaceutical, research and food facilities.

STERILISERS

- Autoclaves
- Steam sterilisers
- Dry heat sterilisers

Done on-site

Sterilisers are calibrated in place with multi-channel reference loggers, so your equipment stays installed and in service.

CATEGORY 14

Others

Quality-control, packaging-line and laboratory equipment that doesn't fit neatly elsewhere — and if your instrument isn't listed, ask us.

PRODUCTION & QA EQUIPMENT

- Leak testers & leak test apparatus
- Heat sealers
- Hardness testers
- Tablet hardness testers
- Tablet counters
- Magnetic separators

LABORATORY AIR

- Fume hoods & fume cupboards
- Laminar air flow hoods

BEYOND CALIBRATION

One team for the whole life of your instruments

Sales
Measuring and weighing equipment for laboratories and industry.

Installation
Set-up and commissioning of new instruments and scales.

Repair & maintenance
Adjustment and servicing to bring equipment back into tolerance.

Validation
Performance checks for enclosures, sterilisers and process equipment.

Consultation
Practical advice on measurement, uncertainty and compliance.

We come to you
All calibration is performed on-site, so your equipment stays in service.

Let's talk about your instruments

Send us your equipment list and we'll come back with a quote covering calibration, on-site visits and any repairs you need.

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ABN 77 166 343 326

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