TEST AND CALIBRATION SERVICES
Ensuring quality and reliability

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ENSURING QUALITY AND RELIABILITY

Introduction
Thales Australia’s Test and Calibration Services (TCS) is one of the most comprehensive laboratory and field service facilities in Australia.

With capabilities including testing, calibration and repair for Dimensional Metrology, Electrical, Heat and Temperature, Mechanical and Pressure systems, TCS offers a one-stop service for defence, aviation, automotive, food, manufacturing, engineering, petrochemical, pharmaceutical, medical, R&D and service sectors.

A team of dedicated technical, engineering and customer service professionals provide both experience and expertise in maintaining equipment at peak performance, with unrivalled commitment to customer service.

TCS’s Melbourne-based National Service Centre and support facility in Sydney is an integral part of the TCS network, ensuring the highest level of service and support for our customers.

All TCS activities are performed to stringent quality control procedures.

The calibration laboratory is NATA accredited and all work undertaken meets the requirements of ISO 9001:2000. The National Service Centre and support facility conforms to ISO/IEC 17025. TCS also provides Regulation 13 calibration services.

Our comprehensive laboratory and service network is a reliable and low risk solution to calibration and inventory maintenance, allowing our customers to focus on their core business activities.

Features and benefits
TCS’s total Calibration Management Solution offers the following features and value-added benefits:

• Continual NATA accreditation since 1953
• Calibration management solutions
• Maintenance of equipment inventory
• Instrument recall service providing automated reminders for due items
• Fixed price quotations, service level agreements and service contracts
• Fast and efficient service
• Technical investigations
• World-class expertise
• Leading edge equipment
• One-stop calibration facility
• NATA Reports, Test Reports, Certificates of Traceability and full service reports
• On-site testing and calibration

COMMITMENT
Dedicated staff including engineers, scientists and specialist technicians, provide a Total Management Solution including value-adding services.
• Customised turnaround time, including urgent same-day service
• Optional pick-up and delivery, including door-to-door delivery
• Calibration training and consultancy
• Dedicated staff of engineers, scientists and specialist technicians.

**Dimensional Metrology**

The Dimensional Metrology laboratory provides measurement services to meet the needs of precision engineers, toolmakers, quality departments and Legal Trade Measurement activities under Regulation 13.

The laboratory is equipped with cutting-edge technologies, from laser interferometry to precision CNC Co-ordinate Measuring Machines. A mechanical testing facility performs torque and force measurement, while a trade measurement facility performs calibration and testing for scales, flow, volume, mass and length.

From component inspections to reverse engineering and calibration of precision instruments, the Metrology Laboratory offers the highest level of service and capability available in the Asia Pacific region today.

**Electrical**

TCS’s Electrical Laboratory provides a vast array of calibration services from D.C. to R.F., including frequency and time measuring instruments and standards, voltage standards, multimeters, instrument calibrators, ohmmeters, resistors, spectrum analysers and oscilloscopes.

We provide customised testing regimes to meet the specific calibration and testing requirements of our customers.
Pressure

The Pressure laboratory is committed to the achievement of industry best practice in the test and calibration of absolute and gauge pressure instruments.

The laboratory offers one of the largest pressure range capabilities in Australia. With a testing and calibration range of -100 kPa to 1 GPa, we can satisfy most industry requirements.

Highly experienced technicians provide specialised skills for a range of equipment, including pressure gauges, transducers and calibrators.

Heat and Temperature

With NATA accreditation for a temperature range of -55°C to 1550°C, the Heat and Temperature facility offers one of the greatest commercial capabilities in the Asia Pacific region.

Onsite Calibration Services

Thales Australia’s extensive network gives TCS the capability and mobility to perform onsite calibration services.
anywhere across Australasia. Onsite services include control, temperature instruments, pressure instruments, flow and level instruments, metrology equipment, scales, CMMs, electrical equipment and instrumentation.

Guide to Calibration Services

**METROLOGY**

- Angle standards
- Auto collimators
- Balances and weighing devices
- Bevel protractors
- Bore gauges
- Clinometers
- CMM part inspections
- Coordinate length measuring machines
- Depth micrometers
- Dial gauge calibrators
- Dividing heads
- Electronic and vernier calipers
- Electronic and vernier height gauges
- Electronic indicators, dial gauges
- Electronic levels
- Engineers squares and parallels
- Engineering metrology equipment
- External cylindrical standards
- External micrometers
- Feeler gauges
- Fineness of grind gauges
- Flow cups
- Flow measuring devices
- Force gauges and transducers
- Gap Gauges
- Gauge blocks and accessories
- Height setting micrometers
- Industrial weighing appliances
- Jigs, fixtures, cutting tools, components
- Length measuring machines
- Length standards
- Laboratory and Industrial masses
- Limit gauges
- Machine tools
- Optical flats
- Optical parallels
- Penetration needles, penetrometers
- Plug gauges including taper plug gauges
- Precision instruments
- Precision linear scales
- Projection apparatus
- Ring gauges including taper rings
- Retractable steel pocket rules
- Reverse engineering
- Rotary tables
- Screw plug gauges
- Screw pitch reference standards
- Screw thread measuring cylinders
- Sine bars, sine tables
- Spherical standards
- Spirit levels
- Straight edges
- Surface texture, topography and roughness specimens
• Surface plates
• Tape measures, steel rules
• Test sieves
• Thread measuring accessories
• Thickness gauges
• Torque wrenches and transducers
• Vee blocks
• Volumetric glassware, pipettes, burettes, volumetric flask, Graduated cylinders
• Weighing devices.

**ELECTRICAL**

• Ammeters
• Audio analysers
• Avionics test equipment
• Audio filters
• Audio oscillators
• Battery chargers
• Bridges, potentiometer, test sets
• Capacitance decade boxes
• Charge amplifiers
• Charge calibrators
• Chart recorders
• Clamp meters
• Communications equipment
• Current probes
• Current shunts
• Current standards
• Digital multimeters
• Digital tachometers
• Directional bridges
• Directional couplers
• Distortion meters
• Earth testers
• Electronic counters
• Electronic components
• Frequency and time measuring instruments and standards
• Function generators
• Indicating and recording instruments
• Insulation testers
• Instrument calibrators
• Loop calibrators
• Multimeters
• Network analysers
• Portable instrument calibrators

DIAL GAUGE CALIBRATOR
- Power sensors
- Power supplies and stabilisers
- Power meters
- Radar test sets
- Resistance bridges
- Resistance decade boxes
- Resistors, resistance boxes and potential dividers
- RF terminations
- RF voltmeters
- Signal generators
- Signal sources
- Standard resistors
- Spectrum analysers
- Standard capacitors
- Stop watches
- Stroboscopes
- Transconductance amplifiers
- Temperature Calibrators
- Voltmeters
- Watt meters
- Waveform measuring instruments.

- Compound gauges
- Industrial and test gauges
- Pressure calibrators and controllers
- Pressure transducers
- Pressure and vacuum measuring devices
- Tyre pressure gauges
- Vacuum gauges.

**PRESSURE**

- Absolute pressure indicator gauges
- Air flow and air leak testers
- Airspeed indicators
- Altimeter testers

**HEAT AND TEMPERATURE**

- Autoclaves, baths, freezers, furnaces, incubators, ovens
- Base metal thermocouple
- Batch thermocouple calibration
- Data loggers
- Dial thermometers
- Digital thermometers
- Dry block calibrators
- Infrared pyrometers
- Liquid in glass thermometers
- Metal resistance detector (RTD)
- Rare metal thermocouple
- Relative humidity meter
- Thermohygrograph.
ONSITE CALIBRATION SERVICES

- Chart recorders
- Calibrators
- Conductivity/Indicators
- CMMs
- Dial and digital thermometers
- Electrical equipment and instrumentation
- Flow meters
- Level transmitters
- Mass
- MIG thermometers
- Optical projectors
- Oxygen analysers
- pH meters
- Pressure gauges
- Pressure transmitters
- Pt simulators
- Refractometers
- RH testers
- RTDs
- RTD/Indicators
- Scales
- Solubility index mixers
- Surface Plates
- Tachometers
- TC/Indicators
- Temperature controllers, gauges, indicators.

**NOTE:** This is a brief snapshot of capability. Even if your test is not listed, call Thales Australia Test and Calibration Centre. With our extensive expertise and network, we should be able to assist with your requirements.