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28 Corporate Boulevard
Bayswater, VIC 3153
Phone: 1300 785 935
Fax: +61 3 9739 9599
Email: sales@texonsite.com.au
ABN: 52 126 736 276

Tex Onsite Pty Ltd has taken every reasonable precaution to ensure the accuracy of the information of this catalogue. Nevertheless, Tex Onsite Pty Ltd cannot hold itself responsible for the consequences of incorrect or misrepresented information, or errors that may have inadvertently arisen during its preparation.
Welcome to TEX Onsite

We wish to welcome you to TEX Onsite. All our representatives pride themselves in their listening ability. We listen well!

They are there to evaluate your needs and provide whatever advice they can to assist clients meet their obligations regarding test and calibration issues and have an over-arching desire to ensure compliance for all clients at all times.

Our aim is for TEX Onsite to be the only call you need to make for all your needs — whether it is advice or service. We have dedicated Scientific Services and R&D teams who are at your service to provide solutions to fulfil your every requirement.

About TEX Onsite

Australian owned and operated, TEX Onsite service an extensive range of ON-SITE test and instrument calibration products Australia wide covering a vast range of industries.

As the industry leader, we have the widest service reach with around 30 service vans on the road, and 5 aircraft servicing remote areas around the country.

Our dedicated repair and calibration laboratory provides a premier service for an ever increasing range of instruments.

Commencing operations in April 2001 TEX Onsite is the only company built specifically around the clients need for on-site testing and calibration. Our rapid growth is due to unrivalled innovation and commitment to customer satisfaction. While constantly increasing our range of services, our dedicated R&D team continually reset the boundaries, setting new standards of what can be done on-site, for example our aviation division which offers a fly-in, fly-out service where previously on-site testing was not available. Our in-house IT engineers embrace continual improvement in data capture and management allowing us to maintain clients’ asset registers and provide scheduling for all re-testing requirements as part of the standard service.
TEX Onsite Vision, Mission & Values

In our relentless quest to provide the very best in customer service, along with an ever increasing product range designed to meet industry needs, all TEX Onsite staff believe in and adhere to the principles supporting our Vision, Mission & Values that are the backbone of this company.

Our Vision
We will increase our global footprint by combining continued innovation with quality technical solutions meeting industry needs, with a dedicated team reflecting our values and sharing in our success.

Our Mission
In pursuit of our vision, through research, development and continuous improvement, we will endeavor to meet client needs, investing in our people, equipment and processes to provide quality solutions.

Our Values
• Honesty
• Respect
• Pride
• Sustainability
• Teamwork
• Excellence
The Mobile Advantage

TEX Onsite’s mobile testing and calibration services brings the lab to you. With nationwide coverage our qualified staff will help ensure that your workplace is safe and compliant wherever you are. Our vans and aircraft are fitted with the latest testing and calibration equipment to give your instruments lab quality treatment without the cost and hassle of freight and downtime. All on-site work is performed in accordance with the relevant ESAA, ASTM, IEC, Australian and New Zealand Standards.

Fast Turnaround

- Instruments are returned to clients on site within hours
- No downtime being without equipment
- Reduce the need for spares

Reduce Paperwork

- No freight costs
- We ID all necessary equipment
- Easy to follow on-line data base records
- No risk of freight damage
- Minor repairs to gloves, blankets, mats and sleeves done on the spot
What We Do

TEX Onsite is dedicated to providing truly mobile Testing, Calibration and Data Management services for the electrical, mining and industrial sectors.

High Voltage Testing

The TEX Onsite mobile high voltage testing service has a capacity of up to 200kV AC. High voltage testing is carried out on a variety of equipment including live line cover up equipment, rubber gloves, rubber sleeves, load handling gins/booms, temporary cut-out switches, ladders, proximity & voltage testers, operating sticks, portable earths and short circuits and elevating work platforms.

Visual Inspection

Visual inspection of lifting equipment, safety harnesses, pole belts, strops, rescue kits, ladders & more.

Instrument Calibration

TEX Onsite also provides an on-site instrument calibration service for our clients. Instruments are calibrated in a controlled atmosphere using the latest up-to-date equipment and traceable to the appropriate standards.

A wide range of instruments including electrical, dimensional, chemical, flow, pressure, torque, survey, temperature, ultrasonic and velocity can be calibrated.

NATA Endorsed Services

NATA endorsed services are available through our Bayswater Victoria laboratory and on-site through request.

Power System Services

Our Power System Services provides a wide range of specialist functions covering all aspects of power system infrastructure including protection relays, transformers and switchgear, insulating oil testing and refurbishment, electrical design and risk mitigation consultancy.

TEX Onsite maintains traceability for all test equipment utilised in carrying out testing and calibration.

With the tools we have in place, TEX Onsite can fully manage your safety and compliance requirements from the initial test and calibration, right up to the record keeping and subsequent re-scheduling – keeping ahead of all your audit requirements.

Sales

Tex Onsite offer one of the largest product ranges from the world’s leading brands, catering to the Oil & Gas, Wind generation, Power, Shipping, Rail, Construction, Mining, Transport & Aviation industries. Please refer to our Tex Onsite Tools & Equipment catalogue or visit our website for a sample of the products we offer.
Contact & Locations

TEX Onsite is available to be contacted at the following locations:

**Head Office**

**Melbourne**
28 Corporate Blvd, Bayswater VIC 3153
P: 1300 785 935
E: sales@texonsite.com.au

**Townsville**
5/547 Woolcock St, Mount Louisa QLD 4818
P: 1300 785 935
E: sales@texonsite.com.au

**Adelaide**
9A Susan St, Hindmarsh, SA 5007
P: 1300 785 935
E: sales@texonsite.com.au

**Auckland**
90 Lady Ruby Dr, East Tamaki, NZ 2013
P: 0800 935 674
E: info@texonsite.co.nz

**Sydney**
8/9-12 Lambridge Pl, Penrith NSW 2750
P: 1300 785 935
E: sales@texonsite.com.au

**Darwin**
3/17 Willes Rd, Berrimah NT 0828
P: 1300 785 935
E: sales@texonsite.com.au

**Gladstone**
Shed 2/10 Roseanna St, Gladstone, QLD 4680
P: 1300 785 935
E: sales@texonsite.com.au

**Australia**

**Brisbane**
37/388 Newman Rd, Geebung QLD 4034
P: 1300 785 935
E: sales@texonsite.com.au

**Perth**
5/35 Colin Jamieson Dr, Welshpool WA 6106
P: 1300 785 935
E: sales@texonsite.com.au

**Toowoomba**
Unit 2/11-15 Gardner Crt, Wilston QLD 4051
P: 1300 785 935
E: sales@texonsite.com.au

**Christchurch**
Unit 8/22C Dakota Cres, Wigram, NZ 8042
P: 0800 935 674
E: info@texonsite.co.nz

**Hamilton**
2/730 Arthur Porter Dr, Te Rapa, NZ 3200
P: 0800 935 674
E: info@texonsite.co.nz

**China**
No.24 Xingxing Rd, Linping, HangZhou
P: 1300 785 935
E: sales@texonsite.com.au

**New Zealand**

**Auckland**
90 Lady Ruby Dr, East Tamaki, NZ 2013
P: 0800 935 674
E: info@texonsite.co.nz

**Christchurch**
Unit 8/22C Dakota Cres, Wigram, NZ 8042
P: 0800 935 674
E: info@texonsite.co.nz
Mobile Testing & Calibration Services

TEX Onsite provides a truly mobile High Voltage Testing and Instrument Calibration Service catering for the electrical, mechanical, mining and industrial sectors throughout Australia, New Zealand and USA.

**Electrical Testing up to 200kV**

- Insulating Gloves/Sleeves/Mats
- Hard Covers
- Live Line & Operating Sticks
- Live Line Equipment
- EWP Units & Liners
- Oil
- Live Line Detectors
- PortableEarths
- Rescue Kits

**Instrument Calibration**

- Electrical
- Dimensional
- Torque
- Pressure
- Flow
- Infrared & Temperature
- Acoustic
- Ultrasonic
All inspection and test data is recorded into our live database complete with test period, serial numbers and results to create a history of your asset.
Data Management - Client Accessible

Secure - Traceable - Trackable - Auditable

- Access your test records online anytime anywhere on our website
- Download calibration certificates online
- Our secure company database is updated regularly to ensure you have the latest data
- Search results exportable to Excel CSV format
- Detailed printable test reports also available for specific jobs
Comprehensive Management System for Test & Calibrations

TEX Onsite’s unique Comprehensive Management System (CMS) undertakes to manage all the test & calibration requirements for an organisation including the documentation & record keeping responsibilities. CMS provides a hassle free ongoing structure for total management of your inventory.

Services Provided

This TEX Onsite exclusive CMS system is supported by our vast range of in-house onsite products as well as our close network of specialist outsource suppliers Australia-wide, providing a one-stop shop for test & calibration requirements.

The cornerstone of the CMS is through the application of three available service methodologies:
• in-house on site
• in-house at our laboratory
• outsource specialist items to our approved expert suppliers

Through the utilisation of the CMS, we are particularly interested in promoting our Whole of Business service rate which offers significant discounts where TEX Onsite services all of the client’s sites across Australia.

Advantage

This innovative Comprehensive Management System is designed with the client in mind - providing peace of mind in compliance, whilst dealing with one supplier nationally for all test & calibration needs. CMS provides a one-stop shop for test & calibration needs nationally.

CMS links in perfectly with and is supported by our:
• Client Accessed Secure Data Management Service
• Compliance Due Date Reminder System
• Works Scheduling Calendar Management Procedure
NATA Accredited Laboratory Services

TEX Onsite operates a fully equipped NATA Accredited Testing & Calibration Laboratory, which is located at our Melbourne Bayswater facility. We provide a one stop shop for calibration, testing & management of your electrical equipment. We have a dedicated R&D team who are at your service to provide solutions when our scope needs to be increased to fulfil your needs.

On-site NATA endorsed calibrations and HV testing can be performed upon request.

HV Testing

- High Voltage Live Line & Operating Sticks
- Insulating Gloves
- Mats & Blankets
- Live Line & LV Covers
- Elevating Work Platforms
- High Voltage Proximity Testers

Calibration

- Precision resistors & resistance boxes
- High Voltage potential dividers
- Torque Measuring Devices – Calibration from 1.25 to 1500Nm to AS4115.
- Pressure – Pressure Gauges, Vacuum Gauges and digital pressure indicators using MSA Test methods 1 and 2 from -95kPa to 70MPa
- Instrument Calibrators: AC & DC Voltage, Current & Resistance
- Analogue & Digital Multimeters
- AC & DC Voltmeters
- AC & DC Ammeters including Clamp Meters
- Ohmmeters
- Insulation Resistance Testers up to 5kV
- High Voltage A.C. Test Sets
- Frequency Counters & Meters
- Optical Tachometers
- Portable Appliance Testers
Electrical Instrument Calibration

TEX Onsite provides a truly mobile calibration service catering for the electrical, mechanical, mining and industrial sectors throughout Australia and New Zealand including:

- Analogue and Digital Multimeters
- Clamp-meters
- Insulation and Earth Resistance Testers
- Low Ohm and Earth Loop Testers
- Oscilloscopes
- Calibrators
- RCD Testers
- Portable Appliance Testers
- Installation Testers (multifunction)
- Resistance, Capacitance & Inductance Boxes
- Data Loggers
+ much more!

Advantage

Regular calibration will document the functionality and accuracy of your equipment so you meet your statutory requirements and help you to:

- Fully meet the requirements of the appropriate industry standards
- Prevent safety related accidents, incidents, hazards and/or near misses
- Keep track of your testing and calibration scheduling
- Mobile on-site testing to reduce down time
- Meet your ISO 9001 Quality Management System requirements
High Voltage Testing

TEX Onsite provides a truly mobile high voltage testing service catering for the electrical, mechanical, mining and industrial sectors throughout Australia and New Zealand including:

- Insulating Gloves and Sleeves
- Insulating Mats and Blankets
- Hard and Soft Cover Equipment
- Live Line & Operating Sticks
- All Live Line Equipment
- EWP Vehicles, Basket Liners & Insulating Oil
- Rescue Kits
- HV Proximity Indicators
- Portable Earths
- Electrical testing up to 200kV

Advantage

Regular testing by TEX Onsite will ensure the functionality and serviceability of your equipment and help to:

- Fully meet the requirements of the appropriate industry standards
- Prevent accidents, incidents, hazards and/or near misses
- Maintain compliance to legislative requirements
- Keep track of your testing or asset register through our database and scheduling systems
- Reduce down time as testing is performed on-site
Electrical / Electronic Repair Facility

TEX On site can provide a one stop shop for your instruments including repairs, calibration and if necessary, replacement.

Our dedicated staff will:
- Repair electronic or electrical test & measurement equipment from a wide range of manufacturers
- Procure replacement equipment for that which can not be economically repaired
- Ensure you are notified of a costing before any work is performed
- Reduce expensive down time by scheduling in-house calibration of your instruments
- Manage your maintenance and calibration re-scheduling
- Work seamlessly with our on-site testing and calibration services to ensure you are looked after 100% of the time.

Our experienced staff can repair a vast array of electronic instruments such as High End Multimeters, RCD Testers, PAT Testers, Ductors, Hi-Pots, VLF Test Sets, Calibrators, IR Testers, Oscilloscopes, Power Supplies, Decade Boxes, Frequency Counters, Earth Testers, Clamp Meters, Process Meters, Process Calibrators, and much much more.

We are the accredited Australian Service Agent for Time Electronics
High Voltage System Maintenance Management Service

Our unique High Voltage System Maintenance Management Service (HVSM), makes TEX Onsite the leading complete system evaluation specialists.

Each HVSM service is thoroughly and meticulously planned and includes both non-intrusive and intrusive inspection and test procedures, reducing downtime, whilst recognizing all applicable legislation and local directions.

Each installation is evaluated on its own merits, a unique annual maintenance plan is produced and approved by the client prior to proceeding. Such plans can recognise maintenance requirements up to seven years duration, ensuring worry free operation and compliance.

With ageing HV systems and networks still in service and limited funds available to replace them, the HVSM service provides an accurate conditional assessment whilst offering peace of mind.

The program is aimed at removing the serious inconvenience and massive expense encountered in unplanned interruptions and system shutdowns.

Specifications

The HVSM Program Covers:
• Transmission Systems
• Distribution Systems
• Protection Equipment
• Switchgear: indoor & outdoor
• Switch Rooms: all functions
• Earth Grid: EPR, step & touch
• Battery Installations
• Station Auxiliary
• Circuit Breakers, Isolator & Earthing Switch
• Oil Analysis Reporting/Recommendations
• Transformer, Tap Changers, Condition Monitoring etc.
When the HVSM service is incorporated with our HV testing of operational and PPE tools and equipment, together with our vast range of instrument calibration - HVSM forms the only complete HV maintenance service.

Please refer to our specific product information on:
- High Voltage Testing
- Electrical Instrument Calibration
- Height Safety/Fall Arrest
- Meet your ISO 9001 Quality Management System requirements

The HVSM program has been developed to ensure all high voltage systems are maintained in compliance with:

Please refer to our specific product information on:
- Maintenance Recommendations of Relevant Standards
- Manufacturers Requirements
- Industry Best Practice
- OHS&E Legislative Requirements
- Applicable Supply Authority Requirements – Service Rules, ISMP etc.
Power System Protection Maintenance

Service

Utilising the latest test equipment combined with expert technicians, TEX Onsite provide a broad range of power system protection services to a variety of customers including Generation, Industrial, Transmission & Distribution, Commercial, Mining, Rail, and Shipping.

Importance

Thorough commissioning testing prevents operating glitches, design issues, installation errors and incorrect settings. This ensures a new system that is safe and without frustration for all involved in the future running of the plant.

In addition to ensuring legal compliance, regular maintenance and periodic testing allows plant owners to monitor the condition of their equipment, as well as identify and correct potential issues prior to catastrophic failures. Safety, supply system integrity and asset longevity are all compromised when protection systems are not functioning to the original design intent.

Specifications

TEX Onsite designs and customises high voltage protection solutions to specifically suit customer needs. This includes balancing equipment importance and priority with outage time limits, supply authority connection requirements and budget.
Primary Equipment Testing

- Feeder and Distribution Systems
- Generators and Motors
- Busbars, Switchboards and Associated Equipment
- Indoor and Outdoor Switchgear
- CT’s and VT’s
- Transformers and Associated Equipment
- Mining Equipment
- Earth Grid Testing
- Primary Injection Differential Balancing
- CB Timing Shots

Secondary Injection and Functional Testing

- Overcurrent and Earth Fault
- Differential Protection
- Impedance/Distance Protection
- Generator Protection and Synchronising Relays
- Auto Reclose Systems
- Motor Protection
- Transformer Protection
- Tap Changer and Voltage Regulation Controls
- CB Fail and Intertrip Schemes
- Auxiliary Protection Equipment
- IEC 61850 Compliance Testing
- Realistic Network Simulation Relay Stability Tests

Minor Design and Installation Solutions / Analysis

- Protection Relay Retrofits
- Protection Relay Overhauls
- Setting Alterations
- Site HV & LV Thermographic Surveys
- Provision of Transformer Oil Sampling and Testing
- Recommendations
Earth System Testing

The fundamental requirement of any electrical earthing system is to ensure the safety of people and protection of electrical plant during the occurrence of an electrical system fault. This is achieved by ensuring hazardous voltage rises and destructive currents are limited via a combination of good earthing design and rapid operation of protection systems.

TEX Onsite offer a range of individual earth system testing services. These include:
- Soil Resistivity Testing
- Earth Potential Rise Profiling
- Step, Touch and Transfer Voltage Measurements
- Fault Current Distribution Analysis
- Continuity checks by DC Current Injection
- Maintenance or Commissioning
- Auditing and Maintenance Management Plans

Advantage

Earthing systems are generally considered passive components of a power system and often neglected during maintenance and condition monitoring activities. However, the effectiveness of earthing systems can dilapidate with age and system alterations.

It is the plant owners’ responsibility to understand the performance capabilities and condition of their earthing systems and adopt an ongoing management and maintenance regime to ensure effective performance throughout the life cycle of the electrical plant.

TEX Onsite can ensure earthing systems are designed, installed, commissioned and routinely maintained in accordance with the relevant standards and national guidelines.

- AS/NZS 3000-2007 - Electrical Installations - Australian/NZ Wiring Rules
- AS2067-2015 - Substations and high voltage installations exceeding 1 KV a.c.
- AS/NZS 3007 2013 - Electrical Equipment in Mines and Quarries
- ENA EG1 & EG0 - Substation Earthing Guide

We can also consolidate the various individual testing services into complete earth system maintenance programs that can be easily integrated into our complete High Voltage Systems Maintenance Management packages.

Under our program, plant owners can rest assured that inherent legal and compliance obligations are met and their electrical systems can be continually operated in a safe and reliable manner in all typical situations.
Power Transformer Condition Monitoring

TEX Onsite provides high end Power Transformer Condition Monitoring services including:

- Oil Sampling
- Complete Laboratory Analysis
- Condition Assessment & Recommendation
- Transformer Management Plans

**Advantage**

- Avoid Catastrophic Failures
- Extend the Life of Equipment
- Identify Transformers’ End of Life Term
- Know the Condition of your Equipment Through Accurate Reporting
- Syringe Type Sampling System Available

**Specifications**

**Electrical Diagnostic Packages include:**

- Dielectric Dissipation Factor, Tan Delta and Capacitance
- Insulation Moisture Content by Dielectric Response Analysis
- Frequency Response Analysis for Core and Winding Diagnostics
- On Load Tap Changer Diagnostics
- Leakage Reactance, Short Circuit Impedance and Excitation Testing
- DC Winding Resistance, Turns Ratio and Polarisation Index Testing
- WTI and OTI Calibration

**Oil Test Diagnostic Packages include:**

- Transformer Condition Assessment
- Tap Changer Activity Signature Analysis
- Circuit Breaker Oil Analysis
- Breakdown Voltage Testing
- Gas Analysis for SF6 Filled Equipment
Power Transformer and Switchgear Services

TEX Onsite specialise in transformer and switchgear installation and maintenance. Our teams of specialist electrical fitters are completely mobile and ready to meet any sites requirements. Below is a just a sample of services available.

Services Provided

Transformers:
- Install, assemble, test & commission
- Vacuum filling
- Repairs and refurbishments including half-life refurbs
- Streamlining and fullers earth filtering on-line
- Capacity upgrade
- Associated equipment servicing and replacement
- Insulator replacements
- Full earthing studies... and much more!

Switchgear:
- Install, assemble, test & commission
- Arc Flash management
- Insulating oil, SF6 sampling and analysis
- Maintenance and repairs
- HV switchboard repairs and maintenance
- Full earthing studies... and much more!

Advantage

Our specialists combine experience and innovation to offer the most cost effective solutions, ensuring equipment is operating at its ultimate efficiency.
Insulating Oil Sampling, Analysis & Reconditioning

TEX Onsite specialise in the complete insulating oil treatment package - from obtaining secure sterile oil samples right through the analysing and reporting process to on-line filtering and reconditioning, including Streamlining and Fullers Earth servicing.

**Advantage**

Our service can provide an accurate analysis of existing oil and the corresponding condition of the electrical equipment from which the oil is taken. This is a useful tool for Asset Management, providing condition status trending and data for “remaining life of asset” considerations.

Our capability for complete oil servicing of insulating oil in electrical equipment, such as transformers, is highly efficient and cost effective. Through the servicing of oil we aim to increase the breakdown voltage, remove impurities, dissolved gasses, moisture and acidity for example, by utilizing our Vacuum, Streamlining and Fullers Earth equipment.

This effectively provides for the ongoing efficient operation of the equipment ensuring a maximum service life.
Electrical Planning, Design & Risk Mitigation Consultancy

Through our vast in-house skill set, and in association with our many talented professional partners, TEX Onsite can facilitate a wide range of Power System consultancy services across Australia & New Zealand, including but not limited to below.

Scope

Operational & Maintenance Planning
• HV System Maintenance Plans
• Operational Procedures Development
• Electrical Equipment Serviceability Evaluation
• Equipment Selection / Appropriateness Advice
• Electrical Project Planning
• Transformer Capacity Upgrades

Power System Design & Analysis
• Design of - Substations, LV / HV Power & Control Systems, HV Connections
• Earth System Design & Installation
• Switchboard Design & Installation
• Power System Modeling (Loadflow /Fault Level / Harmonics / Stability)
• Protection Studies
• Arc Flash Studies
• Electrical Drafting

Risk Mitigation
• Risk Assessment Facilitation / Electrical Audits
• Electrical Equipment Failure / Incident Investigation
• Expert Witness – Electrical Systems
• Functional Safety Assessments
• Grid Connection Facilitation / Supply Authority Liaison

Advantage

It is extremely important that all Power Supply Systems and their integral components are designed and serviced in accordance with manufacturer’s requirements and industry standard best practices, thereby ensuring a safe and efficiently operating network/supply system.
Dimensional Measurement Equipment Calibration

TEX Onsite offers an on-site service for calibration of your dimensional measurement equipment including:

- Internal Micrometers
- External Micrometers
- Dial Gauges
- Vernier Calipers
- Depth Gauges
- Anvil Parallelism and Flatness
- Setting Rods
- Engineers Squares
- Master Rules & Straight Edges

**Advantage**

Regular calibration will document the accuracy of your equipment so you know your measurements are correct and help to:

- Prevent expensive component failure due to mismeasurement
- Ensure safety through accurate measurement of critical parts
- Prevent costly recalls
- Comply with all appropriate industry standards
- Meet ISO9000 and legislative requirements

**Specifications**

- Flatness 0.15µm
- Parallelism 0.4µm
- Grade 0 gauge blocks
- Dial gauges 15mm (0.600”) Range, 0.001mm (0.00005”) Resolution
- Micrometers 12.5mm to 1.5m
Personal Gas Detector Calibration

TEX Onsite offers an onsite service for calibration of your personal gas monitors including all major makes and models.

Common gas sensors for calibrating include:
- LEL (Methane)
- CO
- H2S
- O2
- Other gases available upon request

Advantage

- Comply with appropriate industry standards
- Meet ISO9000 and legislative requirements
- Calibrations carried out on-site, minimising equipment downtime

Specifications

Certified traceable calibration gas to client requirements
Torque Wrench Calibration

TEX Onsite provides a genuine mobile calibration service for torque wrenches with a range from 0.5 to 1500Nm. Calibration of torque multipliers, torque screwdrivers, and torque testers is also offered.

Our flexible service is designed to meet your needs, therefore eliminating equipment downtime. Where a torque wrench needs repair or adjustment we can arrange for it to be sent to the manufacturer or their service agent for repair if required.

Advantage

Regular calibration will document the accuracy of your torque wrench so you know your measurements are correct and help to:

- Prevent expensive component failure due to mismeasurement
- Prevent expensive equipment damage
- Prevent personal injury
- Meet safety requirements
- Prevent costly recalls
- Eliminate equipment downtime
- Demonstrate compliance by recording all data, re-test periods, and asset numbers in our live database to create a history of your assets.
- Ensure compliance to industry standards
- Meet ISO9000 and legislative requirements
Powered Torque Wrench Calibration

TEX Onsite offers the only on-site calibration and maintenance service available for high powered torque tools. We can calibrate hydraulic, pneumatic, and battery powered torque tools or nut runners, as well as hand torque multipliers up to 25,000 lbf.ft. System pressure from hydraulic and pneumatic compressors is taken care of as we can calibrate the pressure gauge to ensure the pressure you deliver to your tools is also accurate.

Our total torque solution is completed by offering on-site servicing of hydraulic and pneumatic torque wrenches, as well as back-to-base servicing of most makes & models. Teaming this up with our hand torque wrench calibration service, we can look after all your torque needs. We also offer powered torque tools for sale from many world recognised brand names - contact us for details.

Advantage

- Hydraulic tools
- Pneumatic tools
- Torque multipliers
- Battery powered tools
- Hydraulic and pneumatic pressure gauges
- Technicians fully trained in hydraulic and pneumatic torque wrenches
- Full calibration certificates provided onsite

Specifications

- Hydraulic torque tools up to 25,000 lbf.ft (33,900 N.m)
- Hydraulic pressure gauges up to 10,000 psi (700 bar)
- Pneumatic and battery torque tools up to 10,000 lbf.ft (13,560 N.m)
- Pneumatic pressure gauges up to 290 psi (20 bar)
- Compliant to AS ISO/IEC 17025
Flow Meter Calibration / Validation

TEX Onsite offers an onsite service for calibration of permanent flow meters using an ultrasonic portable flow meter. We have the capability of measuring flow in liquids using the latest hybrid technology.

These advanced instruments incorporate transit time and Doppler method technology in one unit providing greater accuracy and versatility in the field.

Advantage

Regular calibration will document the accuracy of your flow meters so you know your measurements are correct and help to:

- Prevent expensive component failure
- Prevent accidents, incidents, hazards and / or near misses
- Reduce down time as calibrations are carried out on-site
- Improve productivity
- Demonstrate compliance to AS4747 and relevant industry codes etc
- Qualified Meter Validators

Specifications

- Flow velocity: 0.01...25 m/s
- Repeatability: 0.15 % of reading ±0.01 m/s
- Accuracy: ±0.5 % of reading ±0.01 m/s
- Physical quantities of measurement - volumetric flow rate, mass flow, flow velocity, totalisation
- Transducers available for a wide range of inner pipe diameters (10...2500 mm) and fluid temperatures (-40...+130 °C)
Fuel Flow Meter Calibration

TEX Onsite can calibrate non-trade fuel flow meters found at pumps, bowsers and mobile fuel tender trucks. Our method of calibration does not require filling of portable containers which greatly reduces OHS and environmental risk.

Instead we create a sealed loop with a special pipe set up and the fuel is circulated from the pump back to reservoir. After calibration, we provide a ‘k’ correction factor for meter adjustment and a traceable certificate.

Advantage

- Monitor spillage & wastage
- Provide traceability for fuel usage/carbon emissions for environmental reporting
- Maintain compliance to HSEQ management systems
- Calibrations are carried out on your site
- Sealed closed system to comply with HSE requirements

Specifications

- Flow velocity 0.01-20m/s
- Repeatability 0.15%
- Instrument accuracy up to 0.5%
Pressure Calibration

TEX Onsite provides a truly mobile laboratory quality calibration service for your pressure equipment including:

- Calibrators
- High Accuracy Indicators
- Transducers
- Gauges
- Modules

Advantage

Regular calibration will document the accuracy of your equipment so you know your measurements are correct and help to:

- Prevent costly shutdowns
- Prevent safety accidents, incidents, hazards and/or near misses
- Maintain compliance (as required to meet ISO9000 and legislative requirements)
- Keep your plant and equipment traceable
- Record and manage your assets through our database
- Ensure your equipment remains within test with our complimentary scheduling service

Specifications

- Vacuum and pressure ranging up to 10,000psi (700bar)
- Accuracy up to 0.01%
Temperature Calibration

TEX Onsite offers an onsite service for calibration of your contact type temperature reading and recording equipment including:

- Thermometers
- RTDs
- Thermocouples
- Dry Block Calibrators
- Range up to 650°C

Advantage

- Safe and efficient production
- Traceability to national standards
- Compliance to ISO standards and legislative requirements
- Prevention of expensive equipment failure
- Reduce down time as calibrations are carried out on-site

Specifications

Accuracy

- ± 0.7°C up to 650°C
- Probes up to 12.5mm diameter
Temperature Mapping and Validation Services

Why carry out GMP temperature mapping?

Clause 3.19 of the PIC/S Good Manufacturing Practice guide states:
"Storage areas should be designed or adapted to ensure good storage conditions. In particular, they should be clean and dry and maintained within acceptable temperature limits. Where special storage conditions are required (e.g. temperature, humidity) these should be provided, checked and monitored."

Scope

TEX Onsite can offer GMP temperature mapping validation services of your temperature controlled enclosures right through from developing the testing protocol, collecting and analyzing the data to producing the final calibration report. The report includes 3D modelling of the enclosure being mapped showing the location of all test points, as well as graphical data showing the final results over the duration of the study.

Calibrated Data Loggers are used, which allows for any sized commercial enclosure to be mapped simply, efficiently and economically. Types of enclosures include but are not limited to:

- Cool rooms
- Warehouses
- Fridges
- Freezers
- Ovens
- Baths
- Kilns

Advantages

- Validates the enclosure with regards to GMP
- Highlight hot and cold spots
- Determine effectiveness of climate control systems
- Minimizing spoilage of temperature sensitive products
- Combine with TEX Onsite’s calibration services for a total compliance solution

Specifications

- Empty Chamber
- Loaded Chamber
- Open door
- Power outage
- Summer / Winter
Infrared & Thermal Imaging Calibration

TEX Onsite offers an onsite service for calibration of your infrared temperature reading and recording equipment including:

- Infrared Thermometers
- Thermal Imagers
- Range from 35°C to 500°C
- Up to 150mm diameter image

Advantage

Regular calibration will document the accuracy of your equipment so you know your measurements are correct and help to:

- Prevent expensive component failure
- Prevent accidents, incidents, hazards and/or near misses
- Maintain compliance (as required to meet ISO9000 and legislative requirements)
- Keep your equipment traceable to National/International Standards
- Reduce down time as calibrations are carried out on-site

Specifications

- Stability  ± 0.05 °C at 35 °C
  ± 0.20 °C at 200 °C
  ± 0.40 °C at 500 °C
- Accuracy for 8 µm to 14 µm
  ± 0.35 °C at 35 °C
  ± 0.50 °C at 100 °C
  ± 0.70 °C at 200 °C
  ± 1.20 °C at 350 °C
  ± 1.60 °C at 500 °C
- Emissivity 0.95
- Uniformity of approximately 0.1°C
Height Safety / Fall Arrest Inspection

TEX Onsite provides a safety inspection service for height safety and fall arrest items, including harnesses & lanyards, EWP harnesses & EDD, pole straps, ladders, rescue systems, etc. We have documented procedures for the inspection of all your equipment, whether at your base facilities or in the field.

Advantage

Legislation in most jurisdictions requires all height safety and fall arrest equipment to be in an operationally safe condition at all times. One missed defect/imperfection through improper inspection can be fatal or lead to a serious accident.

Our on-site inspection service makes it so easy, where work interruption is kept at a minimum and your inspection results are recorded in our client-accessible data-base.

Specifications

This service is designed to satisfy the requirements of AS/NZS1891 Industrial Safety Belts & Harnesses & AS/NZS1892 Portable Ladders, and targets industry sectors such as:

- Electricity Supply
- Building Construction & Maintenance
- Arborist / Tree Climbing
- Mining
- Marine
- Recreational Climbing
Lifting Equipment Inspection

TEX Onsite can provide a comprehensive on-site inspection service for lifting equipment. Our trained and qualified staff offer regular inspection as per AS 2550.1-2002 which covers:

- Webbing Slings
- Chains
- Wire Rope Slings
- Hooks and Shackles
- Hand Operated Chain Blocks
- Come-along Wire Grip Clamps

Advantage

Companies must demonstrate due diligence by ensuring that lifting equipment meets specified requirements, is inspected and tested in accordance with legislative and industry requirements.

- TEX Onsite manages all scheduling ensuring your equipment is maintained and in test.
- All inspections are carried out on-site
- Prevent safety accidents, incidents, hazards and/or near misses
- Maintain compliance (as required to meet ISO9000 and legislative requirements)
- TEX Onsite maintains a database of all equipment tested and inspected
Ultrasonic Thickness Gauges

TEX Onsite offers on-site calibration of your ultrasonic thickness gauges traceable to national reference standards. Suitable for all ultrasonic thickness measuring instruments.

Advantage

Digital ultrasonic thickness gauges are versatile instruments for measurement of engineering structures which can only be accessed from one side. Regular calibration will document the accuracy of your equipment so you know your measurements are correct and help to:

• Reduce down time due to equipment failure
• Provide a safe working environment
• Meet work safe requirements
• Comply with Australian and New Zealand industry standards
• Meet ISO9000 and Legislative requirements

Specifications

Six reference points traceable to national standards:
• Ranging from 1.5mm to 20mm.
• Accuracy of ±4µm
• Sound velocity of 5960 m/s
Sound Level Meter Calibration

TEX Onsite offers an on-site service for calibration of your sound level meters including:

- ½ Inch sound level meters
- 1 Inch sound level meters

**Advantage**

Sound level meters are widely used for the measurement of environmental noise. Regular calibration will document the accuracy of your equipment so you know your measurements are correct and help to:

- Provide a safe working environment
- Meet worksafe requirements
- Comply with Australian and New Zealand industry standards
- Meet ISO9000 and Legislative requirements

**Specifications**

Frequency: 1000 Hz ± 2 %.

Sound pressure level:
- 94 dB ± 0.75 dB.
- 114 dB ± 0.9 dB.

Total harmonic distortion:
- 94 dB range ± 2 %.
- 114 dB range ± 5 %.

Suitable microphone type:
THE CALIBRATION EXPERTS
Air Deployable Testing & Calibration Services

TEX Onsite provides a unique air service for high voltage testing, instrument calibration, and power system protection work. Our technicians fly directly to remote sites and islands, catering for mining and industry in areas not easily or economically accessible by road vehicles.

• HV testing of electrical safety & operating equipment
• Power system protection
• EWP testing
• Electronic/electrical instruments
• Micrometers, vernier calipers, dimensional instruments and gauges
• Infrared thermometers and thermal imagers
• Contact thermometers
• Pressure gauges and calibrators
• Torque wrenches
• Airport baggage scales
• Airport weather stations
• Sound level meters
• Lifting equipment inspections
• Portable appliance testing
• Data management and scheduling

Advantage

• On-site service
• Promote safety and help prevent accidents
• Maintain compliance with ISO9000 and legislative requirements
• Greatly reduced down time
• Your equipment remains available at all times
• Fast, reliable, cost effective service
• Not affected by road closures
• Network of over 30 mobile test and calibration vans throughout Australia

Also Available

• NATA accredited instrument calibration via request from our Bayswater Laboratory (Accreditation number 15281)
• Electronic instrument repairs
• Online access to all results
• Scheduling service for retesting
• Equipment sales
Scientific Services

TEX Onsite provides professional scientific and engineering services to processing and manufacturing companies. We work with you to identify the most cost effective and practical solutions for your business. We have a dedicated team designed to provide expertise across an entire project lifecycle, from project conception to operations.

Advantage

• Cost effective solutions – designed with you for you
• Identify, manage and eliminate inefficient systems
• Understand and reduce uncertainties
• Manage and reduce risk
• Maximise production supply to your customers
• Ensure you maintain ISO compliance

Specialising In

• Environmental
• Process
• Electrical
• Mechanical
• Chemical
NATA & Standard Traceable Calibration or Testing Explained

What is NATA?
NATA is the National Association of Testing Authorities and is Australia’s national laboratory accreditation authority. They can be found at www.nata.asn.au

NATA Accreditation
NATA reviews and accredits laboratories based on their technical competence to perform specific types of testing, measurement, inspection and calibration.

Scope of NATA Accreditation
All NATA accredited laboratories are assessed by NATA as to their competence within a specific scope nominated by the laboratory. The importance of a laboratory’s scope is that NATA has only assessed them within their scope and as such NATA only approves the laboratory to reference NATA, or its emblem, within this scope. People requiring NATA endorsed work should be careful to determine the laboratory’s scope and ensure that it covers the work they require. A lab may offer services outside its NATA scope of accreditation however these services will not be NATA endorsed.

NATA Endorsed Calibration or Testing
NATA endorsed testing or calibration can only be offered by a NATA accredited laboratory and only within their scope of accreditation. A NATA endorsed test, inspection or calibration will display the NATA logo on the certificate.

Standard Traceable Calibration or Testing
This is also referred to as calibration or testing traceable to national standards. This means that the equipment used to perform the testing or calibration has been calibrated by instruments more accurate than those under test and there is an auditable chain back to a national or international primary reference standard. This type of testing will not display the NATA logo, and any test, inspection or calibration not displaying the NATA logo is not approved by NATA and has no reference or traceability to NATA in any way.

NATA traceable
A common mistake is that people blur the distinction between NATA Endorsed and Standard Traceable. This has left the industry with the term NATA traceable.

In true terms NATA traceable should only mean NATA Endorsed, however the term NATA traceable is used widely instead of the terminology standard traceable. If NATA endorsed is not required, then the requirement is standard traceable. The term NATA should never be identified with testing or calibrations where the NATA logo is not displayed on the test certificate and if the laboratory does not hold the appropriate NATA accreditation.
**Recognised Standards Applicable to Product Areas**

Identified below are Standards & other documentation applicable to the TEX Onsite product range – this is by no means a full or exhaustive list and is produced as a guide only.

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Tips for Inspection and Maintenance of Insulated Elevated Work Platforms

The below identifies some common things we have experienced that are regular causes of failures for electrical tests on EWPs. If prior consideration of good maintenance is taken, an EWP should stand a much greater chance of remaining electrically safe and compliant.

Bare or exposed metalwork
- Most EWPs should have no exposed conductive parts above 4.5m from ground level.
- Some common causes for failure is where glass or plastic covers have been broken off, grease nipple covers missing - you can generally tell when a cover is missing because you will see a bolt hole is in the boom for no particular reason.
- Another is where rubber flaps have been taken off or broken away - if you’re not sure check for tell-tale signs of having something there previously.
- Many covers are symmetrical on a boom – where there is a cover the same shape and size on both sides of the boom. If there’s one on one side and not on the other - this might indicate one has been broken off.

Contamination inside the booms
- Keep the booms cleaned inside and out.
- When cleaning, if hydraulic hoses are sitting on the inside floor of the boom, try to lift these to wash underneath them.
- If possible get a broom or mop inside the boom when washing it. Check with the manufacturer of the EWP for their recommendations of what cleaning products to use.
- Once cleaned, thoroughly rinse with clean water and allow to dry.

Split orange hoses
- Check the orange insulating hydraulic hoses as best as possible to see if there is any splitting of the outer orange sheath.
- Under the orange layer is a white cotton braided reinforcing which will wick moisture if exposed.

Surface condition
- This mostly applies to the Boom insert and Chassis insert on wet rated trucks.
- Polish the booms with a product which will make water bead on the surface, however check with the EWP manufacturer on what product to use.
- To check if the surface is in good condition spray a fine mist of water on the boom surface and check if the water beads. If it beads well, then it should generally be fine.

Moisture
- After being exposed to moisture, (washing or rain) most trucks should dry OK by themselves over time in a dry place.
- A tip to promote drying is extend the boom fully into the air as high as it goes for a few hours out in the sun and the breeze.
- Keep the EWP dry before testing otherwise nuisance failures due to moisture may occur.

This is not an exhaustive list of all reasons for test failure; it has been produced as an aid only to identify common reasons for failure, and based on our experience. At all times, please consult the manufacturers’ documentation.
Portable Earth Ratings, Repairs & Testing

Portable Earth Ratings
Earths are rated in fault current and time. EG 15kA/0.5 sec which means the earth can conduct 15,000 Amps for half a second without failing. If an earth does not have a clearly defined rating it is likely that it will not successfully clear a fault in the event of an incident.

Selecting a Correctly Rated Earth
To select a correctly rated earth, two pieces of information are required: the possible fault current on the network; and how long the protection will take to operate and clear a fault.

Fault current is normally stated in kA or thousands of Amps and is the amount of current that could potentially flow if isolation fails.

How long the protection will take to clear is the length of time between when a network fault occurs and circuit breaker contacts open or fuses blow.

If the work area has a possible fault current of 14.6kA and the slowest circuit breaker in the network takes 0.9 seconds to open, then you will need an earth rated at greater than 14.6kA for 0.9 seconds, or 14.6kA/0.9s. In this case it is likely that the closest rated earth may be rated at 15kA/1s.

If an unrated earth or an earth with a rating less than the possible fault current or time for the protection to clear a fault is used, there is a high possibility in the event of a failure of an isolation point that the earth will literally just melt away and fail to protect workers.

Repairs to Earths
Ratings of earths are confirmed by destructive testing on the design. This means that the rating is provided for the exact design as the samples tested, including the combination of conductor, cable lugs, fittings, mechanical stress relief devices and any covers as an assembled product. This means to maintain its design rating, any parts used to make repair must be the exact same make, model and size as original, including cable lugs and any other replacement parts and the manufacturer’s manufacturing procedures should be followed to ensure integrity. It is likely that the best option is to return damaged earths to the manufacturer for refurbishment.

Periodic Testing of Earths
Periodic testing checks the condition of earths by monitoring their resistance over time. In order to track variation in resistances over time, many testing laboratories will place a label on the earth stating the earliest known resistance of the earth. When earths are being tested for the first time or where the earliest or original reading is not available, they are normally checked for hot spots and compared to the resistance of similar earths, however until the earth is subsequently compared to its own earlier reading at the next test its resistance cannot be verified as being acceptable. Therefore, owners of earths without previous resistance readings available assume an unknown element of risk until a second round of testing can take place to monitor resistance increases.

Periodic testing regimes also assume that an earth has not been repaired in a manner voiding its original rating. This means that if an earth has been re-manufactured or repaired with other than original parts then the rating is effectively void, even though it may pass the periodic test requirements. Testing providers will generally try their best to identify earths which have been repaired using non-original parts or procedures and advise the customer; however it is impossible to know the exact parts used for every type of earth available. This means that operators and owners of portable earths remain fully responsible for ensuring the rating of their earths is sufficient, not void by making repairs with non-original parts and that they understand the risks involved in removing any previous testing results or using earths which have only been tested once, not allowing comparison of resistance over time.
Notes
MOBILE TESTING & CALIBRATION

C O M P L I A N C E C A L I B R A T I O N

Australia
Phone: 1300 785 935
Fax: +61 3 9739 9599

New Zealand
Phone: 0800 935 674

Visit us online www.texonsite.com.au and www.texonsite.co.nz