

# Industrial Measuring Equipment Calibration Services

Ensure precise and accurate  
measurements



## MAINTAIN THE EFFICACY OF YOUR INDUSTRIAL MEASURING EQUIPMENT

Industrial measuring equipment such as scales, weighbridges, vessels, and tanks are precision instruments that must report accurate data. The reliability of their recorded measurements diminishes over time due to factors such as frequency of use, accidental damage, user behaviour, and changes in the environmental conditions.

The regular calibration of your industrial measuring equipment is vital to ensure the integrity of your data as it checks the accuracy of the measurement results and compares it against a known standard.



### BENEFITS OF REGULAR CALIBRATION

- Maintain precise and accurate measurements
- Adhere to industry regulations regarding the weight of products and vehicles
- Avoid damage to the reputation of the organisation by acting on inaccurate data
- Avoid legal action and / or penalties because of using or reporting inaccurate data relating to the weight of products, objects or materials



### HOW OFTEN SHOULD YOU CALIBRATE YOUR EQUIPMENT?

This depends on several factors such as the type of equipment, the manufacturer recommendations, the frequency of use, the environment that it is used in, and the quality systems that the organisation operates to.

## GWP® VERIFICATION

GWP® Verification can be issued for any weighing device independent of model or manufacturer. It provides all necessary information to maintain lifelong accuracy of your balances and scales.

During our GWP® Verification process we analyse and assess the installed weighing equipment. In consultation with the customer, we carry out a risk analysis on-site, we test the accuracy of the weighing equipment, and we provide an optimised testing and calibration scheme.

GWP® Verification provides cost reduction and audit-proof documentation for all balances and scales at your site.



## OUR INDUSTRIAL EQUIPMENT CALIBRATION SERVICES

### TEST WEIGHTS AND SCALES CALIBRATION

- Certification of balances and scales up to and including 100 tonnes
- In conjunction with industrial minimum weight testing and GWP Verification to meet full regulatory compliance requirements
- In-house and on-site service



### VESSEL CALIBRATION - FORCE CALIBRATION

- Used to calibrate a vessel that can physically accept a force transfer system to apply the calibration loads
- Using hydraulic pressure instead of weights, this method of calibration is faster, more efficient, and more sustainable than traditional methods
- Force is applied to installed loadcells and this is measured using a set of certified R60 approved reference loadcells
- The vessel does not need to be emptied prior to calibration



### VESSEL CALIBRATION - FLOW METER

- For the calibration of a vessel that can accept and retain liquid
- Ensures a high accuracy calibration (to 0.1% of full capacity)
- The vessel is drained to acquire a zero point
- Using a calibrated flow meter, the vessel is filled with distilled water
- To achieve a precise weight, the volume is measured at 5 different capacity points / intervals during filling
- Results are traceable to national standards



## WEIGHBRIDGE CALIBRATION

- Weighbridge test unit with 30 tonne of test weights traceable to national standards and an integrated forklift
- Calibration service is delivered by a fully trained driver and an accredited engineer
- Capable of calibrating a range of weighbridge sizes due to the mix of available weights



## MINIMUM WEIGHT

- Balances and scales are tested according to the smallest quantity that the user wants to weigh on the device on a day-to-day basis
- Weighing process is tested and documented in a Minimum Weight Certificate
- USP and Non USP Minimum Weight Certificates tailored to customer specific process
- Audit proof documentation of testing regimes when combined with GWP Verification



SmartCert software, designed and developed by Mason Technology for the generation of certificates during the calibration process.

### For more information:

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### Our ISO Certifications

- **ISO 17025:** General Requirements for the Competence of Testing and Calibration Laboratories
- **ISO 9001:** Quality Management Systems
- **ISO 14001:** Environmental Management System
- **ISO 45001:** Occupational Health & Safety Management System

