

Pressure Calibration Services

Traceable pressure calibration with documented measurement uncertainty – in the laboratory and on the customer's site



Comparison calibration of pressure gauges, transmitters and switches against traceable reference standards

Pressure calibration establishes the relationship between the value indicated by a pressure instrument and the true pressure realised by a reference standard. At Mizan, each item is calibrated against deadweight testers and reference pressure standards traceable to national and international standards – in the laboratory or on the customer's site – for the oil & gas, food & beverage, petrochemical, pharmaceutical and other process industries.

What We Calibrate

- **Pressure gauges**
 - Analog pressure gauges (Bourdon, capsule, diaphragm)
 - Digital pressure gauges and indicators
 - Vacuum and compound gauges
 - U-tube and inclined manometers
- **Switches, valves & limit devices**
 - Pressure switches (electrical and mechanical)
 - Pressure-relief valve set-pressure verification
 - Pressure regulators and reducers
 - Pressure-limit and safety devices
- **Transmitters & transducers**
 - Gauge, absolute and differential pressure transmitters
 - Flow DP transmitters
 - Pressure transducers and sensors
 - Smart and HART-enabled transmitters
- **Reference & specialist equipment**
 - Deadweight testers and pressure balances
 - Hand pumps and pressure calibrators
 - Process pressure calibrators
 - High-pressure and vacuum references

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



WEBSITE

www.mizanlab.com
info@mizanlab.com



ADDRESS

Al-Hamraa Street, C19
Building 5



PHONE

+963 11 3337421
+963 11 3323508

Traceability & Uncertainty

Every calibration result is linked, through an unbroken chain of comparisons, to national and international pressure standards. The reference standards are themselves calibrated by accredited and national laboratories.

- Reference standards calibrated by accredited or national laboratories
- Traceability to national and international pressure standards
- Expanded uncertainty evaluated to the GUM (ISO/IEC Guide 98-3)
- Results reported at a coverage factor of $k = 2$, about 95% confidence

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

The Calibration Certificate

Each calibration is documented on a certificate that records:

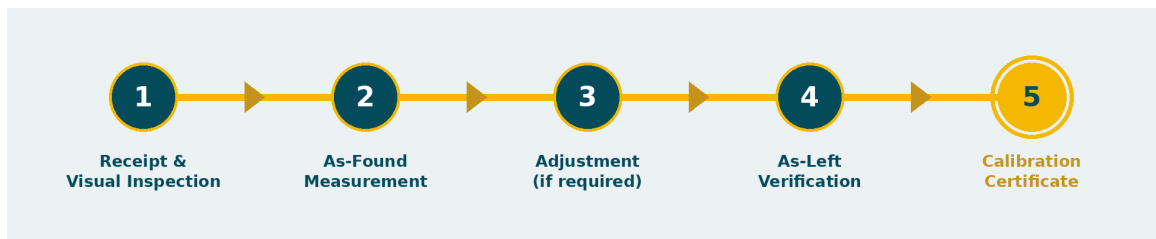
- Identification of the instrument and the reference standards used
- As-found and as-left readings at each calibration point
- The measurement result with its expanded uncertainty
- Ambient conditions during the calibration
- A statement of metrological traceability
- Calibration date and recommended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



On-site calibration across oil & gas, food & beverage, pharmaceutical and other process industries

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.



Measurement you can trace. Uncertainty you can see.



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