

Flow Calibration Services

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



Comparison calibration of flow meters and transmitters against traceable reference rigs and master meters

Flow calibration establishes the relationship between the value indicated by a flow meter and the true rate of flow realised by a reference standard. At Mizan, each meter is calibrated against reference rigs and master meters traceable to national and international standards – in the laboratory or on the customer's site – for the oil & gas, water, food & beverage, pharmaceutical and other process industries.

What We Calibrate

- **Liquid flow meters**
 - Electromagnetic (mag) flow meters
 - Turbine and positive-displacement meters
 - Ultrasonic and Doppler flow meters
 - Variable-area meters and rotameters
- **Differential-pressure flow**
 - Orifice plate and venturi installations
 - Flow nozzles and pitot tubes
 - Differential-pressure flow transmitters
 - DP flow calibration to ISO 5167
- **Gas flow meters**
 - Thermal mass flow controllers and meters
 - Coriolis mass flow meters
 - Ultrasonic gas flow meters
 - Sonic nozzles and critical-flow venturis
- **Reference & specialist equipment**
 - Master flow meters and prover loops
 - Flow indicators and totalisers
 - Custody-transfer measurement systems
 - Flow calibration test benches

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



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Traceability & Uncertainty

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

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

The Calibration Certificate

Each calibration is documented on a certificate that records:

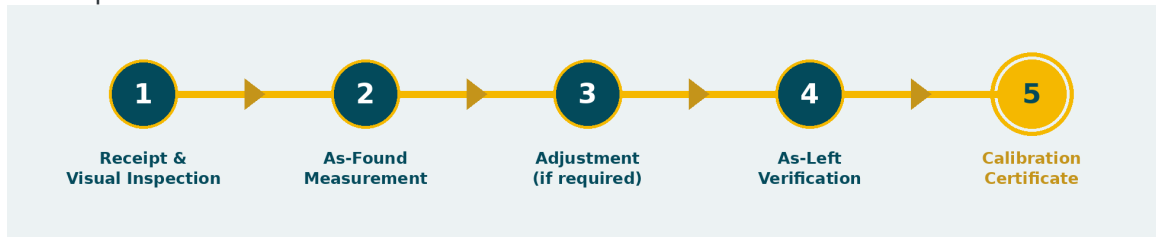
- Identification of the instrument and the reference standards used
- As-found and as-left readings at each calibration point
- The measurement result with its expanded uncertainty
- Ambient conditions during the calibration
- A statement of metrological traceability
- Calibration date and recommended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



Laboratory rigs and portable equipment cover oil & gas, water, food & beverage and 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.



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

Measurement you can trace. Uncertainty you can see.



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