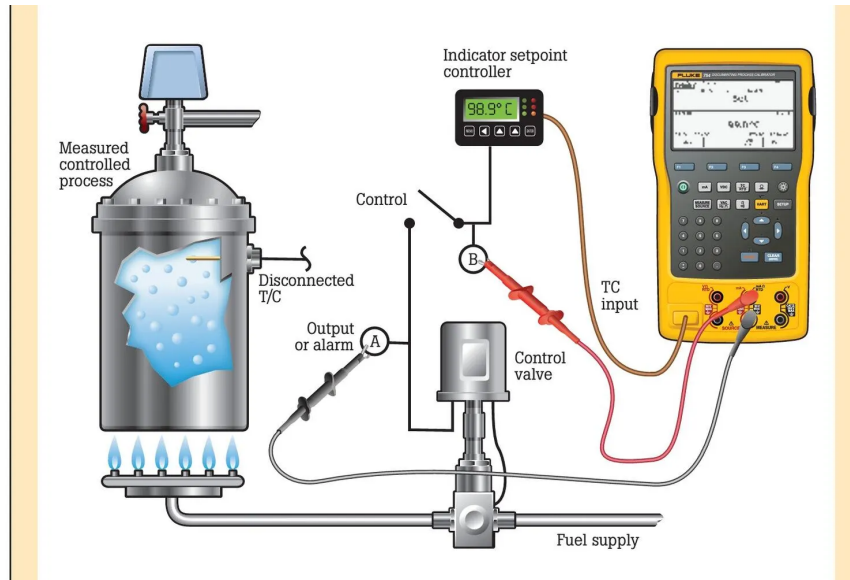


## Process Instrument Verification & Calibration Services

An independent reference for verifying process measurement accuracy to international standards



Verification and calibration of process instruments and control loops, traceable to international measurement standards

Every control decision in a plant rests on what its instruments report. A pressure, temperature or flow reading that has quietly drifted leads to off-spec product, wasted energy, or a safety function that no longer protects. Independent verification confirms that each instrument still measures what it claims, accurately, repeatably and traceably to recognised standards.

### What verification detects

Systematic verification reveals errors that normal operation hides:

- Measurement drift beyond accepted tolerance
- Zero and span shift in transmitters
- Non-linearity, hysteresis and repeatability errors
- Faulty sensors, wiring and loop signals

### Why verification matters

Verified instruments give a plant the confidence to:

- Trust process readings and control decisions
- Keep product quality within specification
- Prove safety-loop instruments still perform
- Meet audit, traceability and compliance needs

**A control system is only as reliable as the instruments it trusts, and verification keeps that trust earned**



WEBSITE  
www.mizanlab.com  
info@mizanlab.com



ADDRESS  
Al Hamraa Street, C19, Building 5



PHONE  
+963 11 3337421  
+963 11 3323508

## Scope of Services

Process instrument verification carried out by Mizan follows the test methods of IEC 61298 and IEC 60770, with calibrations traceable in line with ISO/IEC 17025, so that results are accurate, repeatable and defensible.

- **Field instrument verification**
  - Pressure, temperature and flow instruments
  - Level transmitters and process analysers
  - Control valves and final-element checks
  - Transmitter zero, span and accuracy testing
- **Loop & system verification**
  - End-to-end control-loop verification
  - Indicator, controller and alarm checks
  - Safety instrumented loop proof testing
  - As-found / as-left documentation
- **Applications**
  - Oil, gas and petrochemical plants
  - Power generation and utilities
  - Water and wastewater treatment
  - Food, beverage and pharmaceutical plants
  - Manufacturing and process industries

## Technical Reports to IEC & ISO Standards

In preparing verification reports, Mizan applies a documentation and analysis methodology aligned with IEC 61298, IEC 60770 and ISO/IEC 17025, ensuring results that are clear, traceable and dependable for decision-making.

### The technical reports issued by Mizan include the following:

- As-found and as-left results with measured error at each test point
- Instrument accuracy assessed against IEC 61298 and IEC 60770 methods
- Calibration traceability to national and international standards per ISO/IEC 17025
- Loop performance and safety-function results to IEC 61511 where applicable
- Each out-of-tolerance instrument identified by tag, location and deviation
- Clear recommendations on adjustment, repair and re-verification intervals



*Field verification confirms instrument accuracy against traceable reference standards*

**Accurate process control begins with verified, traceable instruments**



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