



Test Rigs for Measurement Chambers

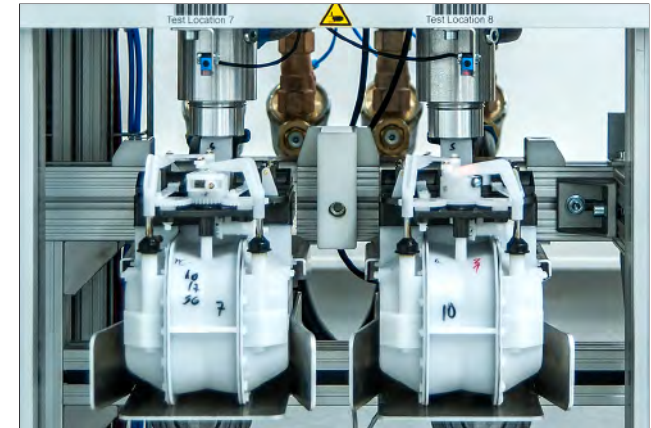
Test Rigs for Measurement Chambers

The inotech test rigs for the calibration of measurement chambers are designed to meet the individual manufacturer requirements together with the highest accuracy and the shortest calibration time. All kinds of measurement chambers, manufacturer independent, of all sizes can be calibrated (e.g. for diaphragm gas meters or ultrasonic gas meters). The test rig has up to 2x6 test locations which are each equipped with a set of sonic nozzles to calibrate the measuring chambers at the desired flow rates. Each test location can be operated separately to achieve the highest flexibility in production. The software using the information from the process control system monitors the system condition and the measuring results at each test location on a touchscreen.



The use of sonic nozzles as references guarantees the highest accuracy and the fastest flow control. The pneumatic clamping system with height adjustment and the individual chamber positioning adaptors reduces the set-up time to the minimum.

For the calibration of a measurement chambers of diaphragm gas meters with the lowest possible test volume, at every single test location a laser sensors detects the revolutions of the mechanical parts.



The inotech calibration software provides fully automatic predefined test sequences.

The software visualizes all process and measuring data together with the indication how to adjust the measurement chamber to meet the error tolerances.

The certified error calculation meets the international standards. The test results and measured values are available on screen and as well as a date file.



Technical Data



Technical Data

Type of the test facility Test rig for measuring chambers with individual recording of the test volume of the MuT

Type of Meters

- Diaphragm measuring unit (standard)
- Other measuring units on request

Device under Test

- Up to 2x6 pcs.
- Size G1.6 - G25
- Flow range of 0.01 m³/h up to 40 m³/h

Accuracy in Measuring

- ≤0.35% at Q_{min}
- ≤0.25% at 0.2•Q_{max} up to Q_{max}

Test Media

- Ambient AIR (standard)

Standards

Sets of critical operated Venturi-nozzles. Suitable to the required test points.

Features

- Fully automatic process
- Freely definable process sequences
- Visualizing of the state variables
- Certified calculation of errors including the compensation of the state variables
- Output of measuring results to data base or to screen, data backup

PRODUCT RANGE

- Low pressure test rigs for domestic and industrial gas meters
- High pressure test rigs for gas meters designed as closed-loop or as bypass
- Mobile gas meter test rigs
- Modernization of test rigs
- Test rigs for gas pressure regulators
- Test rigs for water meters and heat meters
- Purging units
- Leakage test units

SERVICE PROGRAM

- Remote support and service support
- Spare parts
- Maintenance contracts
- Preventive maintenance
- Update service
- System availability service
- System extension
- Software support with customized adaptations
- Standard and tailor-made trainings



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