



Test Rigs for domestic Gas Meters

Calibration of domestic Gas Meters

The inotech test rigs for the calibration of domestic gas meters are designed to meet the highest accuracy together with the shortest calibration time. All kinds of domestic gas meters, manufacturer independent, of all sizes could be calibrated (e.g. diaphragm gas meters, ultrasonic gas meters). The test rig is equipped with sensors to measure temperature, pressure, differential pressure and humidity to ensure the highest accuracy in calibration. The software using the information from the process control system monitors the system condition and carries out a permanent plausibility check for all measured values.

You can calibrate up to 12 gas meters of the same kind all at once.

The use of sonic nozzles as references guarantees the highest accuracy and the fastest flow control. The



pneumatic clamping system with the easy height adjustment and the flexible gas meter connection reduces the set-up time to the minimum. The laser sensor in combination with a pulser enables the test rig to calibrate the gas meters with the lowest possible test volume.

The inotech meter calibration software provides fully automatic predefined test sequences. During a measuring process you can visualize all process and measuring data as well as an active flow diagram on the screen.

You can output the test results and the measured values to the screen, to a printer as well as to a data file. The certified error calculation meets the international standards.



Technical Data



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Type of the test facility Test rig for domestic gas meters with individual recording of the test volume of the MuT

Type of Meters • Diaphragm gas meter
• Ultrasonic gas meters
• Single- or double-socket design
• Mechanical or electronical counters

Device under Test • Up to 12 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 $0.2 \cdot Q_{max}$ up to Q_{max}

Test Media • Ambient AIR (standard)
• Natural Gas (optional)

Standards Sets of critical operated Venturi-nozzles. Suitable equipped according 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, to screen or to printer, 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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