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GMC - G1.6..G400

Adjustment test bench for domestic gas meters

Data sheet EPE-159010



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GERMANY



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Abbildung ähnlich

Calibration Stand with sonic nozzles Modular system design Optional SMF® with 9 sonic nozzles

Test bench Typ A: G1.6 to G10
Test bench Typ B: G10 to G65
Test bench Typ C: G65 to G400

Description

The test bench is especially designed for the calibration of domestic gas meters (diaphragm gas meters, ultrasonic gas meters, thermoelectric gas meters). The test bench has a modular design - it is possible to combine 1x6 to 4x6 clamping points for gas meters. The modular design allows 1 to 12 gas meters to be tested simultaneously. In parallel, up to twelve test specimens can be adapted, run in and leak tested. The leak tests are carried out automatically.

The gas meters are tested at three or more measuring points. A magazine made of three sonic nozzles is used as a flow sensor. The nozzle magazine can be exchanged with just a few hand movements so that up to five different gas meter types can be calibrated on one test bench.

Optionally, a nozzle drum with nine combinable nozzles can be used. This allows the generation of up to 512 different flow points. This means that all five gas meter types G1.6..G10 can be tested without nozzle change.

Technical Data

Test Bench Typ A	G1.6, G2.5, G4, G6, G10
Test Bench Typ B	G10, G16, G25, G40, G65
Test Bench Typ C	G65, G100, G160, G250, G400
Testing Positions	1x 6; 2x 6; 1x 12; 2x 12
Test Medium	Air
Device Under Test	Domestic gas meter
Measurement accuracy sonic nozzle	0.25% MV
Measurement accuracy complete system	0.30% MV <i>(Optional 0.20% with PTB-Calibration)</i>

Options

- ✓ Push loading drawers with 3 sonic nozzles for G1.6..G10
- ✓ SMF® Barrel system with 9 sonic nozzles for five types of gas meters (G1.6..G10)
- ✓ Enhancements subsequently possible
- ✓ Storage of test results on SQL-Server
- ✓ Mobiles peripheral for flexible input of device data
- ✓ Semidual use - Parallel pre-run and measuring

Benefits

- ✓ High long-term stability through the use of sonic nozzles
- ✓ Highest accuracy by the use of sonic nozzles
- ✓ Optimum capacity utilization - short process times
- ✓ Integrated plausibility check of the meter signal
- ✓ Automated counter monitoring
- ✓ Fast and stable adjusting of the volume flow
- ✓ Modular system for 1 to 24 units
- ✓ Long-term stable measuring elements - low recalibration effort



Standard solution
Application examples:



Gas- and Flow measurement:

Calibration of Gas Meters (domestic gas meters, ultrasonic gas meters, thermoelectric gas meters)

! This is only an example of an interpretation and can change for your application.



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For special requirements we are happy to advise you. Subject to change. / EPE-159010 / Last update: 08/2017 / V07
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