Testing technology for reliable results

Leak testing, flow measurement, test systems, and calibration for industrial applications.



From your test application to long-term support for your test equipment.

HeMaTech Prüftechnik combines precise measurement technology with practical solutions for the lab, volume production, and automated manufacturing.

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Test technology has to work every day

Dear Customers and Partners,

Reliable testing doesn't start with the test instrument. It starts with the question of what a part has to deliver under real-world conditions — and how that requirement can be tested reproducibly.

That is exactly where we start at HeMaTech. We develop and supply solutions for leak testing and flow measurement, integrate test technology into production systems, and support our customers with calibration and service throughout the entire life cycle.

We combine technical experience with short lines of communication and personal points of contact. Our goal is solutions that don't just look good on the data sheet, but prove themselves in everyday industrial use.

We look forward to learning about your test application.

> We have worked with many of our customers for years. That's not just because of the technology, but because they reach someone who knows their system and takes care of the problem right away.



Harald Hellerich & Mark Hellerich

HeMaTech Prüftechnik GmbH & Co. KG

Testing from a single source

From a single measurement to a test process supported for the long term.

Certified

We are certified to ISO 9001:2015 and are committed to clearly structured, dependable quality processes.

Accredited

Our calibration lab is DAkkS-accredited and provides reliable calibration of measuring and test equipment.

Location

Our location in Schwaikheim near Stuttgart means personal support and quick response times.

All under one roof

- Leak and flow testing technology
- Our own test instruments
- Custom test systems
- In-house DAkkS-accredited calibration lab
- Service and long-term equipment support
- Personal contacts and quick response

HeMaTech Prüftechnik develops and sells solutions for industrial leak testing and flow measurement. Our portfolio ranges from individual test instruments and automated test systems to calibration, maintenance, and repair.



Testing leak tightness and flow reliably

Choosing the right test method is the key to a meaningful result.

Leak testing determines whether the actual leak rate of a part lies within the defined limit value. Depending on the application, different measurement methods come into play.

Differential pressure

The part under test is compared with a reference volume. This method is ideal for high accuracy requirements and small leak rates.

Gauge pressure

A simple test setup and fast test cycles make this method especially attractive for higher allowable leak rates.

Flow measurement

It is used, for example, for valves, fittings, pipe assemblies, and other fluid-carrying components.

The right method depends on factors such as part geometry, leak rate, test medium, cycle time, and production environment.



Three instruments. Different test applications.

Leak testers for the lab, production, and automated processes.

Our test instruments deliver reproducible measurements and stable test sequences. Depending on the application, they differ in measurement method, test range, and expansion options.

Leak testers



70PRO

For demanding test applications

Differential pressure tester with high measurement accuracy and extensive options for customization.



71REL

For robust gauge pressure testing

Simple test setup, fast results, and a wider measurement range for applications with higher allowable leak rates.



75ECO

For cost-effective standard applications

Compact differential pressure tester with good measurement accuracy for many industrial applications.

Looking for the right test instrument for your application?

Talk to us about your test application. We will help you match the measurement method, test range, and instrument configuration to your requirements.

70 PRO – for demanding leak test applications

High measurement accuracy, flexible configuration, and integration into industrial processes.

The 70PRO uses the differential pressure method and is designed for applications that require precise, reproducible measurement results. Numerous options allow it to be adapted to a wide range of test applications.



Measurement method	Differential pressure method
Test medium	Compressed air and other gases
Key feature	High measurement accuracy
Test programs	Up to 99
Result storage	10,000 records
Result output	USB drive, PROFINET, PROFIBUS, and RS232
Interfaces	PROFINET, PROFIBUS, RS232, VNC
Test sequence	Automatic
Integration	Can be integrated into production systems

Testing with compressed air is dry and clean. This prevents contamination of the part and eliminates the need for subsequent cleaning or drying.

71 REL – when a wider measurement range is needed

Gauge pressure testing for robust, cost-effective test processes.

The 71REL uses the gauge pressure method. Compared with differential pressure testing, the test setup is simpler and the measurement less sensitive — in return, it covers a wider measurement range.

This makes the instrument especially suitable for parts with higher allowable leak rates and for applications that call for fast test cycles and a robust measurement process.



Measurement method	Gauge pressure method
Test medium	Compressed air
Key feature	Wide measurement range
Test programs	Up to 99
Result storage	10,000 records
Result output	USB drive, PROFINET, PROFIBUS, and RS232
Interfaces	PROFINET, PROFIBUS, RS232, VNC
Test sequence	Automatic
Integration	Can be integrated into production systems

The 71REL extends the HeMaTech portfolio to applications where a cost-effective test process matters more than the highest possible sensitivity.

75 ECO – compact testing

Cost-effective leak testing for many standard applications.

The 75ECO is designed for applications that call for a compact and cost-effective differential pressure tester.



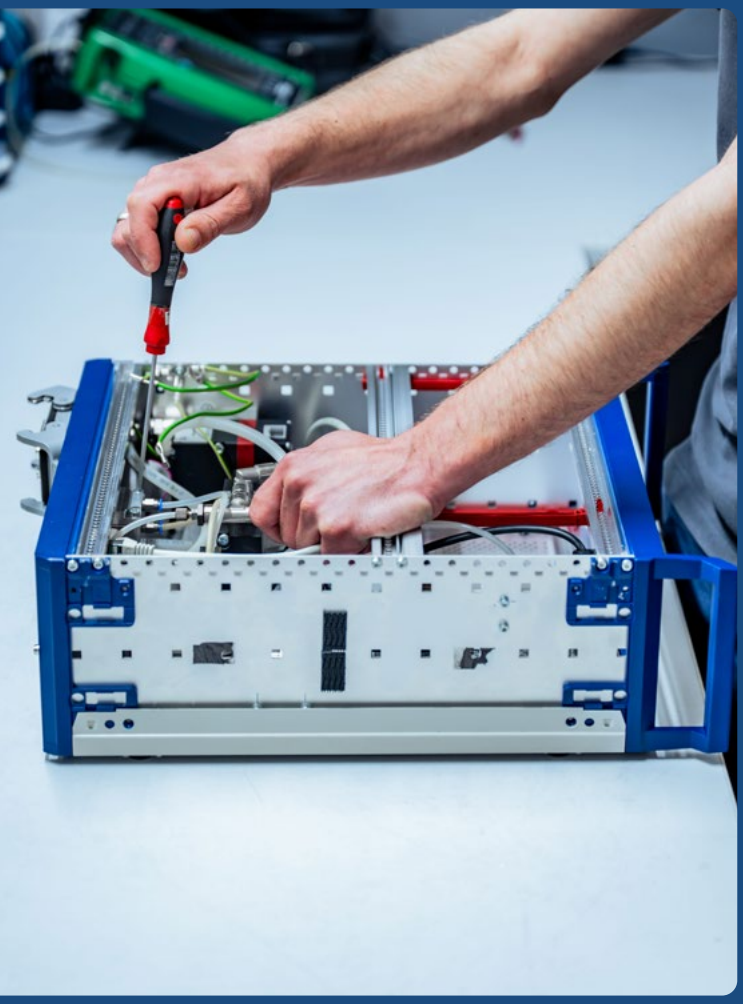
Measurement method	Differential pressure method
Test medium	Compressed air
Key feature	Good measurement accuracy
Test programs	Up to 99
Result storage	10,000 records
Result output	USB drive, PROFINET, PROFIBUS, and RS232
Interfaces	PROFINET, PROFIBUS, VNC
Test sequence	Automatic
Integration	Can be integrated into production systems

The 75ECO combines good measurement accuracy with the key functions for reproducible industrial leak testing. For more demanding requirements, the 70PRO offers an advanced solution. → Page 6

When test technology becomes a complete process

From manual fixtures all the way to fully automated test systems.

Not every test application ends with the instrument. For industrial manufacturing processes, HeMaTech develops custom test systems in which measurement technology, fixtures, handling, controls, and data analysis work together.



Typical solutions

- Manual test stations
- Semi-automatic test fixtures
- Fully automated leak test systems
- Inline test systems
- Robotic test cells
- Interlinked test stations

Depending on the application, we integrate differential pressure and flow testing, PLC controls, part handling, test result logging, data interfaces, and traceability.

Thanks to our close ties with HeMaTech Automatisierungstechnik, a single measurement task can grow into a complete automated test solution.

Would you like to automate your testing?

We develop the right solution — from manual test stations to fully automated test systems.

Calibration with documented traceability

DAkkS and factory calibration for industrial measurement and test equipment.

The HeMaTech calibration lab is accredited by DAkkS to **DIN EN ISO/IEC 17025:2018** for the measurands **pressure and flow**. The accredited scope covers **gauge pressure from -1 to 20 bar, absolute pressure from 0.035 to 7 bar, and flow from 0.48 to 100 ml/min**.

Our calibration services include:

- HeMaTech leak testers
- Leak testers from other manufacturers
- Pressure sensors and pressure transducers
- Pressure transmitters
- Pressure meters and gauges
- Flow sensors and test leaks

DAkkS Deutsche Akkreditierungsstelle

DIN EN ISO/IEC 17025:2018

Our calibration lab is accredited by DAkkS for the calibration of pressure and flow quantities.

We provide regular recalibration, test equipment management, and maintenance as part of our service. → Page 12



Measurement quality needs transparent processes

Quality doesn't end with the measurement result.

Reliable test technology requires that measurements are performed reproducibly, documented, and regularly verified.

Our services are based on:

- Quality management to ISO 9001:2015
- Documented test and calibration procedures
- Traceable measurements
- Transparent test processes



ISO 9001:2015

Certified
quality management

Quality at a glance

Reproducible

Measurements based on documented test and calibration procedures.

Documented

Transparent test processes and complete documentation of all results.

Traceable

Traceable measurements and regular verification of test equipment.

This certificate and other credentials are available at www.hematech.de

Long-term test equipment support

From first use to regular recalibration.

Test instruments are part of quality-critical processes. That's why HeMaTech continues to support its customers after purchase and commissioning.

Our services include:

- Calibration and recalibration
- Maintenance
- Repair
- Technical support
- Test equipment management
- On-site service
- Spare parts
- Technical modifications

Many customers rely on us for years for recalibration, maintenance, repairs, and technical support. With our in-house calibration lab, many of these services can be performed directly at HeMaTech.

This keeps test equipment available and its measurement results verifiable over the long term.

In-house DAkkS-accredited calibration lab: quick turnaround, reliable scheduling, and documented traceability from one source.



Test technology in action

Instruments. Applications. Systems. Calibration.









Test technology for demanding applications

Test system for activated carbon filters

Industry: *Automotive*

Automotive supplier with 13 sites worldwide, based in Lower Saxony



Task:
The task was an EOL test of automotive activated carbon filters for completeness, leak tightness, and flow.

Solution:
HeMaTech developed and built a 4-station test system with interchangeable test plates. Two HeMaTech test instruments each handle the differential pressure leak test and the measurement of flow and back pressure. Dot peen markers provide permanent part marking.

Result:
All test processes run fully automatically with a cycle time of 90 seconds per part. The operator only loads and unloads the system.

Leak test stand for pool testers

Industry: *Instrumentation*

Maker of water analysis instruments from North Rhine-Westphalia



Task:
The pool testers form a closed volume whose leak tightness had to be reliably verified in an EOL test.

Solution:
HeMaTech developed and built a manual sealing fixture with a two-part bell chamber that fully encloses the test part. An integrated HeMaTech 70PRO test instrument measures the pressure drop in the chamber volume, enabling the leak test.

Result:
Testing is automatic using the differential pressure method and takes only about 30 seconds.

From test application to the right solution

For us, technical support doesn't end with delivery of the system.

1. **Inquiry & test application**
   Clarify the part, requirements, and constraints.
2. **Technical analysis**
   Review leak rate, test medium, measurement range, and process conditions.
3. **Select test method**
   Define a suitable method and the technical implementation.
4. **Design the solution**
   Configure the test instrument or develop a custom system concept.
5. **Implementation & testing**
   Prepare, configure, and fine-tune the system for the application.
6. **Delivery & commissioning**
   Deliver the test equipment and integrate it into the process as needed.
7. **Service & calibration**
   Maintenance, repair, and regular recalibration support the rest of the life cycle.

Your test application — our solution

Talk to us about your project. Together, we will define the requirements and the next practical steps.





Your challenge.
Our test technology.

Do you need a leak tester, want to measure flow, automate a test process, or have your measuring equipment calibrated?

Talk to us about your requirements. Together, we will determine which solution is the best technical and economic fit for your application.

Contact

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