



HeMaTech

PRÜFTECHNIK GmbH & Co. KG



NEW

HeMaTech 70pro Professional Leak Tester



General

HeMaTech Prüftechnik is known for robust, durable leak testers featuring high accuracy.

All over the world users trust in the reliability and service of HeMaTech Prüftechnik. Leak testers using the differential pressure method have become indispensable in many areas of industry when it comes to testing parts in series production.

HeMaTech leak testers provide many benefits:

- automatic test cycle
- storage of test programs
- can be integrated into plant concepts
- contamination-free testing
- reproducible results
- short cycle times combined with high accuracy
- unambiguous results
- measured value display
- variable test pressures and testing times for optimum adaption to the production of different parts
- simple operation due to operator guidance
- service-friendly thanks to the modular design

The 70pro

The 70pro is the right choice when a robust and durable leak tester is called for. It is characterized by a high measuring accuracy and an almost unbeatable reliability.

The 70pro can be customized for your testing task with a variety of options.

Differential pressure method

Air escapes through a leak in a closed volume (part under test). This causes a pressure loss. In comparison, a reference chamber is under initial pressure. The difference between these two chambers can be detected with a differential pressure transmitter. The pressure difference is a measure of the existing leak and is independent of the test pressure or the prevailing ambient pressure.

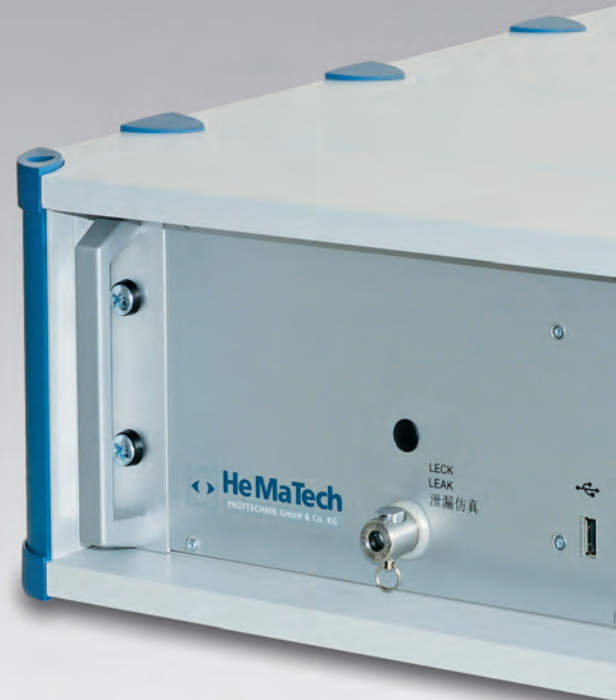
Inexpensive compressed air is used as the test medium. Due to its low viscosity, the air can quickly penetrate pores, the smallest holes, cracks or other causes of a leak. The tested parts will not get dirty or contaminated. Rust protection, drying or cleaning is therefore not required.

A leak test is only possible with adaptation of the test specimen via sealing elements or devices. HeMaTech also offers you a customized concept for this - just ask us.

Operation

The test parameters are entered in a clear program plan and do not require any special prior knowledge. A help function is available if required. Data is saved by means of a write-protection key switch. The parameters can only be read, but not modified, when the device is locked.

70pro
Robust and accurate
Versatile in use



Higher-level control systems can communicate with the 70pro via a standard digital I/O interface or optionally via Profibus or Profinet. With Profibus/Profinet, test data and program parameters can also be exchanged. The 70pro can thus be easily integrated into automated production processes.

The direct entry of test programs at the test instrument can be done very easily via touchscreen or an optionally connected keyboard. The devices also have an integrated VNC server. Once connected to a network, the device can be addressed and operated via its IP address and a VNC client.

Service

Customer-friendly service is an important concern for HeMaTech Prüftechnik. As a user, you will receive comprehensive advice and support from our team.

Service technicians carry out calibrations and maintenance at the customer's premises. An extensive stock of spare parts guarantees a quick repair of the test equipment.

At HeMaTech you will find the tailor-made solution for leak testing of your products with a feel-good factor.

The 70pro at a glance

- state of the art leak tester covering many applications
- wide selection of test pressure ranges
- robust and precise transmitter for differential pressure
- overload protection up to 150 barg
- pneumatically controlled cut-out and shut-off valves (no influence by valve warming)
- Windows CE based
- touchscreen display
- well-arranged user interface for easy handling
- intuitive programming
- sequencer for defined program successions
- write protection switch to prevent from unauthorized changing of parameters
- large, color-coded display of results
- error messages in plain text
- VNC server for network-based operation
- Profibus or Profinet on request
- exchange of data and test programs with external PLC
- matching switchover units available for sequential multi-point measurement (optional)
- connection for test leak or external leak calibrator (optional)
- proven HeMaTech quality
- long-lived
- versatile in use due to a comprehensive choice of options to fit to your application



Technical Data

Program storage:	persistent memory, NAND-Flash, 10,000 data records for larger amounts of data use external USB storage which can be connected at the front	Write protection:	key switch
Measuring sensor:	temperature compensated transmitter for differential pressure overload protection 150 bar	Status indicator:	Accept, Rework, Reject, Fault
Display:	7.0" TFT VGA Touch Display 800 x 480 px	Interfaces:	1 x parallel interface (machine control, up to 96 digital I/Os) control inputs: 24 VDC, 500 mA control outputs: 24 VDC, 500 mA short-circuit proof 1 x serial interface RS 232 for transfer of parameters and test results 1x USB 2.0 for transfer of parameters and test results keyboard, mouse 1x RJ45 for VNC optional: Profibus, Profinet
Data entry:	virtual keyboard on TFT display external keyboard via USB, VNC viewer	Housing:	19" rack mount unit, in metal case
Measuring range:	0 ... 3 000 Pa	Dimensions:	165 x 590 x 456 mm (HxWxD)
Measuring resolution:	display: 1 Pa (0,0001 Pa adjustable) by means of high resolution SigmaDelta A/D converter	Weight:	approx. 24 kg
Results:	in Pa, mm WS, mbar, psi, mm Hg, ml/min	Power supply:	100 - 240 V, 50 ... 60 Hz
Test programs:	99	Power consumption:	approx. 100 VA
Filling and test pressure:	electronic pressure control 0.10...1.0 bar/g 0.15...2.5 bar/g 0.20...6.0 bar/g 0.50...10.0 bar/g -0.80...-0.10 bar/g Combined pressure ranges (pressure and vacuum), other pressure ranges upon request	Air supply:	1,5 bar > test pressure, 10 bar max filtered, dry and oil-free
Test parameters:	Filling pressure ... bar Test pressure ... bar Pressure tolerance 1,0 ... 10,0 % FS Filling time 0,1 ... 999,9 s Stabilization time 0,1 ... 999,9 s Measuring time 0,1 ... 999,9 s Rework limit ... Reject limit ... Consecutive rejects limit	Pneumatic ports:	air supply G1/4", test medium G1/4" (optional), test port G1/8", reference port G1/8" vent through air silencer G1/4"
		Scope of delivery:	leak tester, power cord 2.5 m key for write protection switch, USB stick containing manual and documentation
		Order number:	3925-0070

