



# HeMaTech

PRÜFTECHNIK GmbH & Co. KG

NEW



## The compact Leak tester

### 75eco



## 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 75eco

The 75eco is your partner of choice when a reliable, cost effective leak tester is required. It offers good measurement accuracy, is compact and suits many standard applications.

Higher-level control systems can communicate with the 75eco 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 75eco 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.

# 75eco

## Convenient and favourable Short-term availability



## 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.

## The 75eco at a glance

- compact leak tester covering many applications
- one test pressure range: 0.2 to 6.0 barg
- fast, precise transmitter for differential pressure
- overload protection up to 40 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 unit available for sequential multi-point measurement (optional)
- connection for test leak or external leak calibrator (optional)
- proven HeMaTech quality
- cost-efficient
- available at short notice



## Technical Data

<b>Program storage:</b>	persistent memory, NAND-Flash, 10,000 data records for larger amounts of data use external USB storage which can be connected at the front	<b>Interfaces:</b>	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
<b>Measuring sensor:</b>	temperature compensated transmitter for differential pressure overload protection 40 bar	<b>Housing:</b>	compact metal case
<b>Display:</b>	7.0" TFT VGA Display 800 x 480 px	<b>Dimensions:</b>	141x357x420 mm (HxWxD)
<b>Data Entry:</b>	virtual keyboard on TFT display external keyboard via USB	<b>Weight:</b>	approx. 8 kg
<b>Measuring range:</b>	0 ... 3 000 Pa	<b>Power supply:</b>	100 - 240 V, 50 ... 60 Hz
<b>Measuring resolution:</b>	display: 1 Pa (0.0001 Pa adjustable) by means of high resolution SigmaDelta A/D converter	<b>Power consumption:</b>	ca. 100 VA
<b>Results:</b>	in Pa, mm WS, mbar, psi, mm Hg, ml/min	<b>Air supply:</b>	1.5 bar > test pressure, 10 bar max filtered, dry and oil-free
<b>Test programs:</b>	99	<b>Pneumatic ports:</b>	air supply G1/4", test medium G1/4" (optional), test port G1/8", reference port G1/8" vent through air silencer G1/4"
<b>Filling and test pressure:</b>	electronic pressure control, 0.2 ... 6.0 bar/g	<b>Scope of delivery:</b>	leak tester, power cord 2.5 m key for write protection switch, USB stick containing manual and documentation
<b>Test parameters:</b>	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	<b>Order number:</b>	<b>3925-0075</b>
<b>Write protection:</b>	key switch		
<b>Status indicator:</b>	Accept, Rework, Reject, Fault		

