



Application Software  
CETA Soft 2G for free!

## Leak Tester CETATEST 725

*New generation of innovative leak tester with gauge pressure sensor*

The CETATEST 725 is a fully automatic working leak tester for the detection of untight parts within the cycle time of the production process. The method is based on measuring the pressure change in the test part due to leakage.

The leak tester uses a gauge pressure sensor and has a large measurement range. Therefore the CETATEST 725 is especially qualified for the simple testing of parts with large leakages.

### System architecture

Industrial PC: Quad Core CPU, 1.8 GHz,  
4 GB RAM, 128 GB SSD, Micro-controller  
system for the test process control:  
32-bit ARM  $\mu$ C / 84 MHz

### Signal processing

Fast 24-bit A/D converter, real-time proces-  
sing of measurement signals

### Valve types

Sliding valve or poppet valve (depending  
on the application)

### System features

Flow-optimised pneumatics  
Integrated security functions

### Pressure sensor

Gauge pressure sensor

### Measurement range

Max. +/-10,000 Pa, depending on the pres-  
sure range (resolution: 1 Pa), other ranges  
on request

### Result units

Pa, hPa, PSI, Pa/s, hPa/s, PSI/s, mbar\*l/s,  
ml/min, ml/h, l/min, l/h, mmHg, mmWs, Torr

### Pressure ranges

-1 bar, 200 mbar, 1 bar, 6 bar, 10 bar,  
negative gauge pressure and positive  
gauge pressure ranges can be combined,  
(e.g. -1 bar / +1 bar), other pressure ranges  
on request

### Maximum Deviations

Gauge pressure: 1 % \*  
Specification for combined devices based  
on positive gauge pressure  
Pressure loss: 1 %  
referred to measuring range

### Test modes

Pressure decay  
Optional: sealed component, dynamic  
pressure, pressure steps

### Additional functions

**Standard:** nominal pressure optimisation,  
prefill, pulsing, smooth filling, variable zero  
point

**Optional:** program series, temperature  
compensation, test repetition, free pro-  
grammable control valves

### Operation

Touch screen, dual jog dial, separate  
start / stop buttons, password protected  
user levels

### Display

7-inch color screen, various graphical  
diagrams (measurement curves, histo-  
gram, measurement series overview), list  
of results

### System monitoring

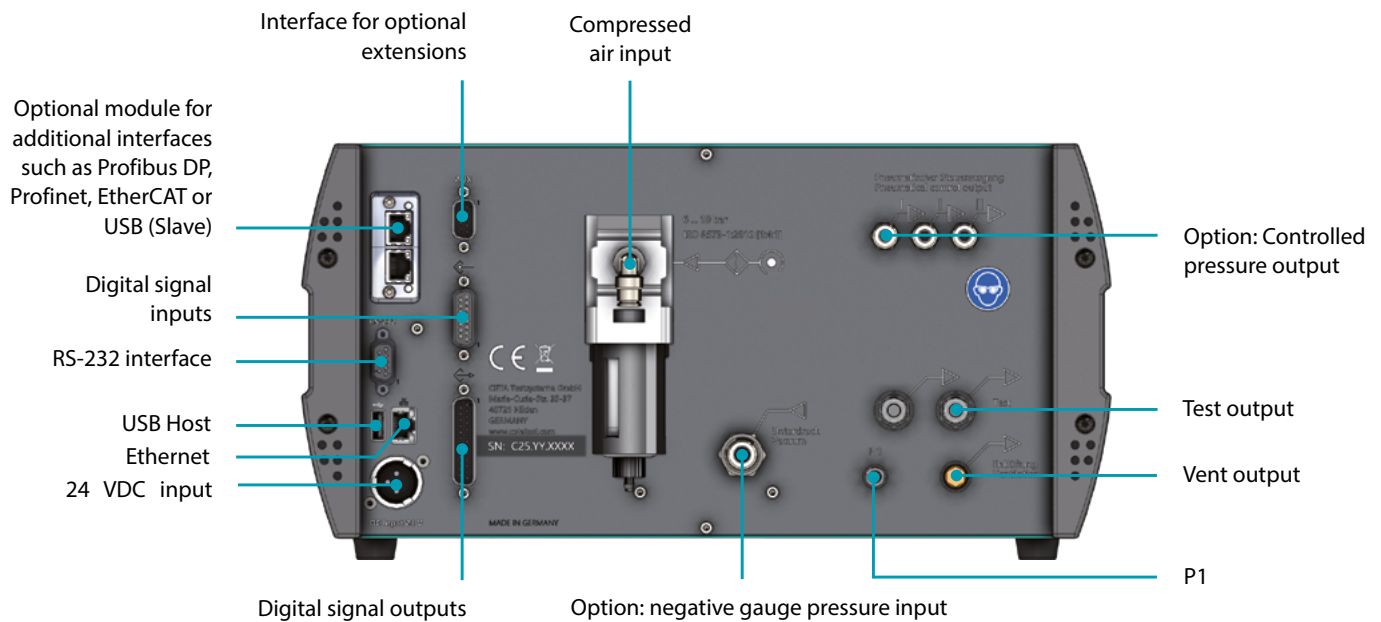
Control of the compressed air supply,  
consecutive zero results

### Memory

For more than 1 million measurement re-  
sults, 256 individually parameterisable test  
programs with alpha-numeric program  
names, export / import of test programs  
via device interfaces or by usage of a USB  
storage device



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### Interfaces

I/O interface for start/stop/reset, program selection, device status, system errors, test results (pass/fail)  
 RS-232, USB (host), Ethernet and optional interfaces allow additional functions like parameterisation, measurement results, detailed information in real time (e. g. measurement curve), failure messages

An optional module can be used to implement additional interfaces such as Profibus DP, Profinet, EtherCAT or USB (Slave).

The CETATEST 725 is fully interface compatible with the CETATEST 715 and well prepared for Industry 4.0 requirements.

### Further functions

Result statistics, cycle counter, recording of measurement series and measurement curves, Dynamic Link Library (DLL) for RS-232 interface programming, integration of test part image / barcode / QR code, user administration, export of test parameters, measurement curves and measurement series to USB storage media, nominal pressure optimisation

### User support

Automatic parameter determination  
 Leak rate set-up wizard  
 Teach-in mode  
 Maintenance monitoring  
 Overview of parameter changes

### Power supply / Power consumption

Test device: 24 VDC / max. 50 W  
 External power supply (optional):  
 Input 100 - 240 VAC / 47 - 63 Hz  
 Output 24 VDC  
 UL certified power supply unit

### Air supply

6 - 10 bar, min. 0.5 bar above test pressure  
 resp. 50 mbar below evacuation pressure  
 Quality or purity according to ISO 8573-1: 2010 [1: 4: 1]

### Pneumatic connections

Input (compressed air supply):  
 6 mm plug-in fitting  
 Port for test part: 6 x 1 mm fitting, 6 mm clamping ring (option),  
 up to three pneumatically driven outputs (option)

### Dimensions and weight

W x H x D: 367 mm x 183 mm (4 U) x 435 mm  
 Weight: approx. 12,5 kg

### DAkkS-accredited calibration

All leak, mass and flow testers as well as pressure manometers and calibration standards are delivered with a DAkkS-accredited calibration certificate in accordance with DIN EN ISO/IEC 17025 at no extra cost.  
 DAkkS = German Accreditation Body

### Scope of delivery

Special packaging, documentation on device, DAkkS-accredited calibration certificate, EU declaration of conformity, spare sealing caps and spare caps for union nuts coupling or spare clamp rings

### Warranty

3 years in case of yearly maintenance, optional prolongation to 5 years

### Accessories (optional)

Power supply with UL certification, power cord, filter combination, test leak, D-Sub connector incl. cable for inputs and outputs (PLC communication), leaktight 3/2-way valve, application software CETA Soft 2G, scanner interface, further accessories in the CETA accessories catalogue