



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.



Deutsche
Akkreditierungsstelle
D-K-19566-01-00

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 μ 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, 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: 2 % *

Test modes

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

Additional functions

Standard: prefill, pulsing, smooth filling,
variable zero point

Optional: program series, free program-
mable control valves

Operation

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

Display

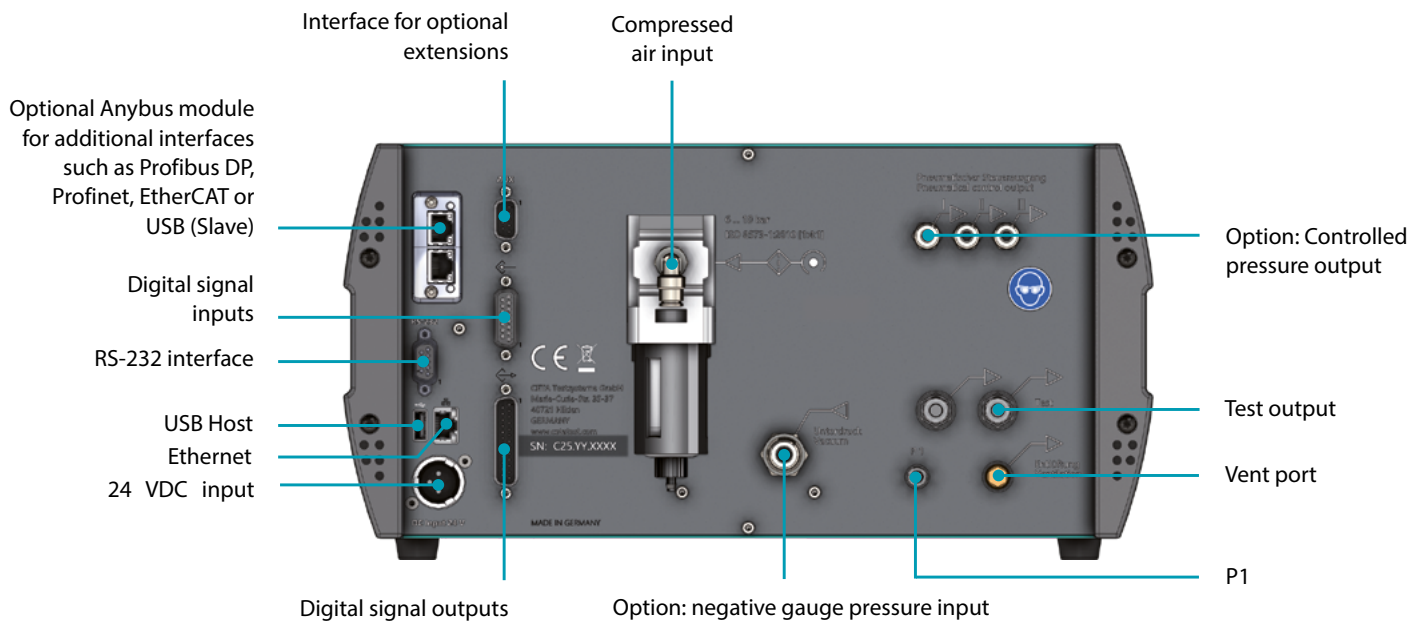
7-inch color screen, various graphical
diagrams (measurement curves, histo-
gram, measurement series overview), list
of results

System monitoring

Self-tightness test, logging of valve swit-
ching times, control of the compressed air
supply, consecutive zero results

Memory

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



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 Anybus 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 optimization

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

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)

DAkkS calibration and DAkkS certificate

All new devices will be delivered free of charge with DAkkS calibration certificate according to DIN EN ISO/IEC 17025.

Dimensions and weight

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

Scope of delivery

Special packaging, documentation on device, DAkkS calibration certificate, EU declaration of conformity, D-Sub-plug, digital input and output cable, 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, power cord, filter combination, test leak, leaktight 3/2-way valve, application software CETA Soft 2G available on request free of charge, scanner interface, further accessories in the CETA accessories catalogue