



### CETATEST 825 - New generation of innovative leak testers with differential pressure sensor

The CETATEST 825 is the fourth generation of CETA differential pressure testers, as a variant of the new series of test devices CETATEST x25. Following the x15 series, known for the quality, reliability and durability of its devices, the new x25 series features a large number of technical innovations.

#### 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  
processing of measurement signals

#### Valve types

Sliding valve or poppet valve  
(depending on the application)

#### System features

Flow-optimised pneumatics  
Low inherent volume of the measuring  
circuit  
Integrated security functions  
Flexible configuration of test phases  
External sensors can be integrated

#### Pressure sensors

Gauge pressure sensor  
Differential pressure sensor

#### Measurement ranges

$\pm 500$  Pa /  $\pm 5,000$  Pa (display resolution:  
0.1 Pa, internal resolution: effectively 0.01  
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, +/- 5 mbar, +/- 50 mbar, 200 mbar,  
1 bar, 6 bar, 10 bar, 20 bar, 30 bar  
negative and positive gauge pressure  
ranges can be combined (e.g. -1 bar / +10 bar),  
other pressure ranges on request

#### Maximum Deviations

Gauge pressure: 1 % \*  
Specification for combined devices based  
on positive gauge pressure  
Differential pressure: 0.5 %  
referred to measuring range

#### Test modes

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

#### Additional functions

**Standard:** prefill, pulsing, smooth filling,  
variable zero point  
**Optional:** program series, temperature  
compensation, test repetition, automatic  
test time adjustment, free programmable  
control valves

#### Operation

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

#### Display

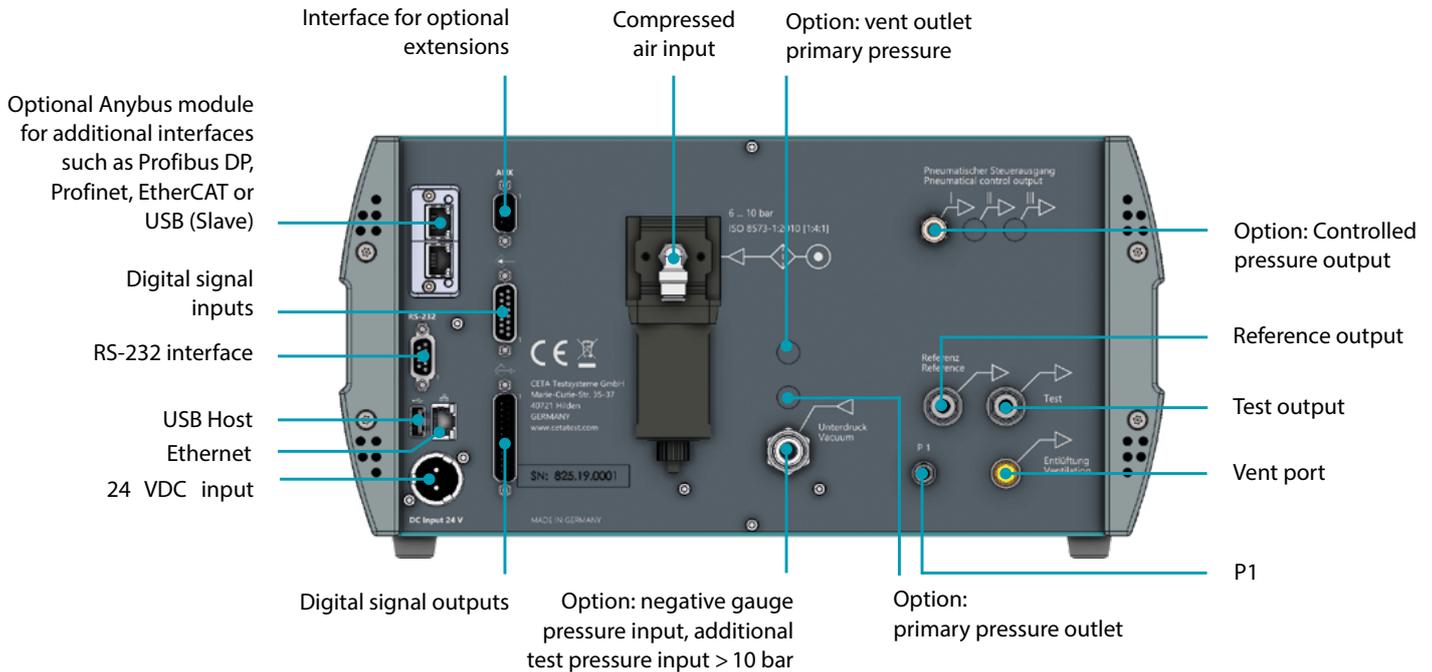
7-inch color screen, various graphical  
diagrams (measurement curves, histogram,  
measurement series overview), list of  
results

#### System monitoring

Self-tightness test, logging of valve  
switching times, Still-Alive-Check with  
differential pressure sensor monitoring,  
automatic function control (option),  
control of the compressed air supply,  
consecutive zero results

#### Memory

For more than 1 million measurement  
results, 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 825 is fully interface compatible with the CETATEST 815 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  
Test devices with pressure ranges higher than 10 bar have an additional connection for the external compressed air > 10 bar.  
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