



Application Software  
CETA Soft 2G for free!



### Leak Tester CETATEST 815 - makes precision work

The CETATEST 815 is a fully automatic working leak tester for the detection of untight parts within the cycle time of the production process. The pressure in the test part volume due to a leakage is compared with the pressure in a tight reference volume (differential pressure method).

#### Operating methods

One channel operation

#### Signal processing

Fast 24-bit-A/D-Converter  
Real-time processing of the measurement signals

#### Valve types

Depending on the application:  
sliding valve or poppet valve

#### Processing

Real time microcontroller system,  
16-bit  $\mu\text{C}$  / 40 MHz

#### Pressure sensors

Differential pressure sensor  
gauge pressure sensor

#### Measurement ranges

$\pm 500 \text{ Pa}$  /  $\pm 5,000 \text{ Pa}$   
(displayed resolution: 1 Pa,  
internal resolution: effective 0.01 Pa),  
other ranges on request

#### Result units

Pa, hPa, PSI, Pa/s, hPa/s, mbar $\cdot$ 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 gauge pressure and positive  
gauge pressure ranges can be combined,  
(e.g. -1 bar/ +1 bar), other pressure ranges  
and mechanical pressure regulator on  
request

#### Test modes

Pressure decay  
Optional: sealed component, RAM  
pressure, pressure steps, pressure rise  
(with double leak connector)

#### Test options

Prefill (multiple filling), program  
series, smooth filling, repeated filling,  
temperature compensation, variable zero  
point, test repetition / automatic test time  
adjustment, free programmable control  
valves for each program

#### System control

Still-Alive-Check with differential pressure  
sensor control, patented automatic  
function control (option), control of the  
compressed air supply, consecutive zero  
results

#### Programmable test phases

Delay, prefilling, preventing, filling,  
stabilising, measuring, venting, reservoir  
filling, flood, refilling

#### Test mode specific limits

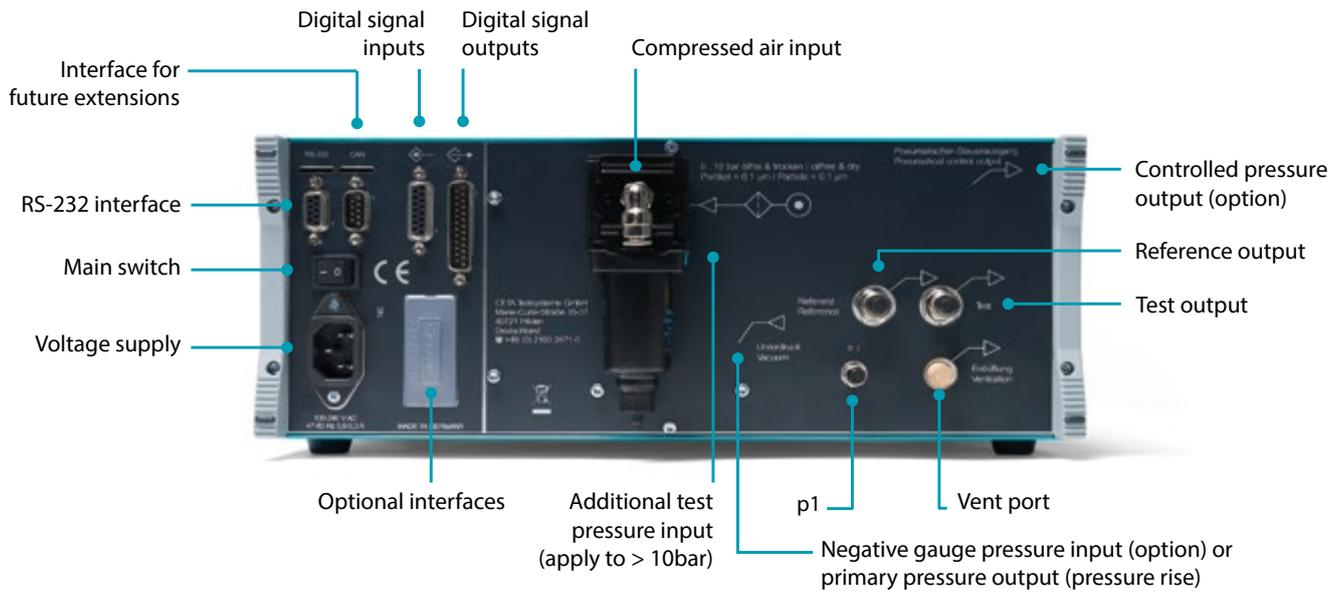
Prefill pressure, filling pressure, test part  
specific reject and rework levels

#### Handling

Intuitive menu including password  
protected user levels

#### Parameter memory

64 individually parameterizable test  
programs with alpha-numeric program  
names, parameters of the test programs  
can be exported resp. imported via the  
test device interfaces or by usage of a USB  
storage device.



## Interfaces

Function	Start / Stop / Reset	Program selection	Device status / system fault	Evaluation (Pass / Fail)	Parameterization	Measurement results	Detailed fault messages
Digital I/O (standard)	■	■	■	■			
RS-232 (standard)	■	■	■	■	■	■	■
Profibus DP (option)	■	■	■	■	■	■	■
Profinet (option)	■	■	■	■	■	■	■
Ethernet (option)	■	■	■	■	■	■	■
EtherCAT (option)	■	■	■	■	■	■	■

Further interfaces on request The optional RS-232 protocol converter enables the exchange of a CETATEST 810 that communicates via RS-232, against a CETATEST 815.

## Further functions

Result statistics, indicator for service intervals, registration of parameter change, recording of measurement series and measurement curves, Dynamic Link Library (DLL) for RS-232 interface programming

## Power supply / Power consumption

100 - 240 V AC, 47 - 63 Hz, 0.6 - 0.3 A, depending on stage of expansion max. 60 W

## Compressed air supply

6 - 10 bar and 0.5 bar above test pressure resp. 50 mbar under evacuation pressure (ISO 8573-1:2010 [1:4:1]). Test devices with pressure ranges higher than 10 bar have an additional connection for the external compressed air >10 bar.

## 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:  
345 mm x 145 mm (3 U) x 435 mm  
Weight: appr. 10 kg

## Included in delivery

Special packaging, power cord, documentation and PC-software on CD, calibration certificate, declaration of conformity, D-Sub-plug including cable for inputs and outputs (PLC-communication), spare sealing caps and spare caps for union nuts coupling or spare clamp rings

## DAkkS calibration and DAkkS calibration certificate

All new CETATEST 815 devices will be delivered free of charge with DAkkS calibration certificate according to DIN EN ISO/IEC 17025.

## Warranty

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

## Accessories (optional)

Filter combination, standard leak, leaktight 3/2-way valve, RS-232 protocol converter, RS-232/Ethernet adapter, application software CETA Soft 2G, scanner interface, more in the CETA accessories catalogue.

