



Application Software
CETA Soft 2G for free!



Leak Tester CETATEST 815 Twin - *parallel testing*

The differential pressure leak tester CETATEST 815 Twin is designed for synchronous two-channel operation and is suitable for applications in which test parts can be tested with the same settings. The channel specific adjustment of the leak thresholds is possible. The differential pressure method compares the pressure in the test part volumes due to leakages with the pressures in the reference volumes.

Operating methods

Synchronous two channel operation, single channel mode possible

Signal processing

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

Valve types

Seat valvel

Processing

Real time microcontroller system, 16-bit μC / 40 MHz

Pressure sensor

Each channel has one gauge pressure sensor and one differential 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, 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
Differential pressure: 0.5 % referred to measuring range

Test modes / test options

Pressure decay, prefill, smooth filling, analysis of the filling and stabilizing curve, repeated measurements / automatic measuring time adjustment, free programmable control valves

System control

Control of the compressed air supply, in the case of test cycle interruption in one channel (e.g. due to a gross leak) the test cycle in the other channel continues, Still-Alive-Check with differential pressure sensor control

Programmable test phases

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

Test mode specific limits

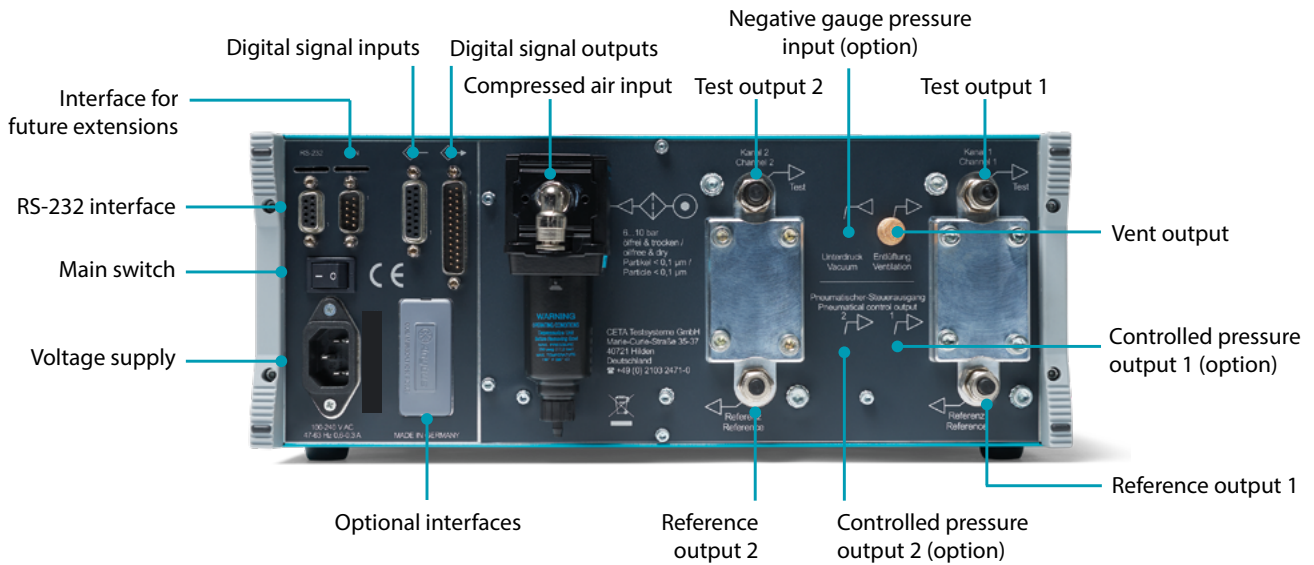
Prefill pressure, filling pressure, test mode specific reject and rework levels

Handling

Intuitive menu including password protected user levels

Parameter memory

64 individually parameterisable 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.



Interfaces		Start / Stop / Reset	Program selection	Device status / system error	Evaluation (Pass / Fail)	Parameterisation	Measurement results	Measurement curve	Phase information in real time	Error messages
Standard	Digitale I/O	■	■	■	■					
	RS-232	■	■	■	■	■	■	■	■	■
	USB Host (Front)				■	■	■	■		
Option (one selectable)	Profibus DP	■	■	■	■	■	■	■	■	■
	Profinet	■	■	■	■	■	■	■	■	■
	Ethernet	■	■	■	■	■	■	■	■	■
	EtherCAT	■	■	■	■	■	■	■	■	■

Further interfaces (e.g. Bluetooth, WiFi & USB Slave) on request.

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 and power consumption

100 - 240 VAC / 47 – 63 Hz / 0.6 - 0.3 A depending on stage of expansion max. 60 W Integrated power supply unit with UL certification

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]).

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 two pneumatically driven outputs (option)

Dimensions and weight

W x H x D:
 345 mm x 145 mm (3U) x 435 mm
 Weight: approx. 11kg

Scope of delivery

Special packaging, power supply with UL certification, power cord, 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

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

Warranty

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

Accessories (optional)

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