CETATEST 815 Twin

CETA®

Application Software
CETA Soft 2G for free!

DKD   ilac-MRA   DAkkS
Deutsche
Akkreditierungsstelle
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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 decay 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

One differential pressure sensor and one gauge pressure sensor for each channel

Measurement ranges

± 500 Pa / ± 5.000 Pa
(displayed resolution: 1 Pa, iinternal resolution: effective 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, 200 mbar, 1 bar, 6 bar, 10 bar, negative gauge pressure and positive gauge pressure ranges can be combined (f.e. -1 bar/+1 bar), other pressure ranges on request

Test modes / test options

Pressure loss, Prefill, Smooth filling, Analysis of the filling and stabilizing curve, Repeated measurements / Automatic measuring time adjustment,option: free programmable control valves for each program

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
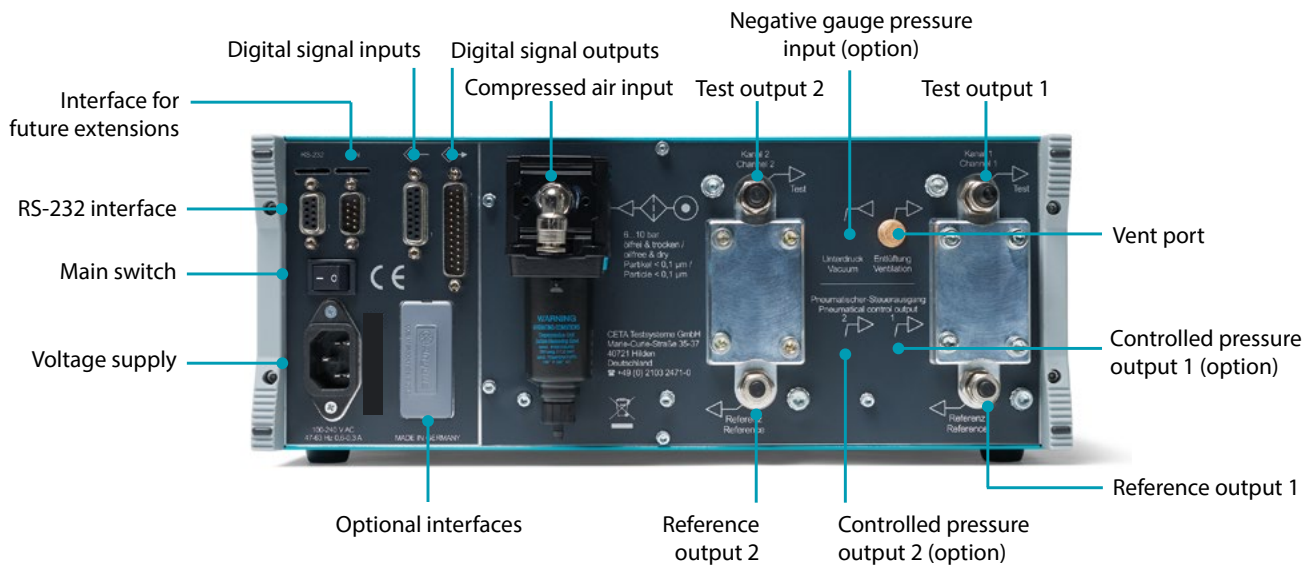
Test mode specific limits

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

Handling

Intuitive menu including password protected user levels

Parameter memory

64 individual parameter driven 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.

Interface for future extensions
RS-232 interface
Main switch
Voltage supply
Digital signal inputs
Digital signal outputs
Compressed air input
Negative gauge pressure input (option)
Test output 2
Test output 1
Vent port
Controlled pressure output 1 (option)
Reference output 1
Optional interfaces
Reference output 2
Controlled pressure output 2 (option)

Interfaces

Function	Start / Stop / Reset	Programm-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.

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 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]).

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: appr. 11kg

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 certificate

All new CETATEST 815 Twin devices will be delivered free of charge with DAkkS calibration certificate.

Warranty

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

Accessories (optional)

Filter combination, standard leak, leak tight 3/2-way valve, RS-232 / Ethernet-adapter, application software CETA Soft 2G (limited scope of services), scanner interface, more in the CETA accessories catalogue.

Subject to modification due to technical progress | October 2018