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 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
± 500 Pa / ± 5,000 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*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
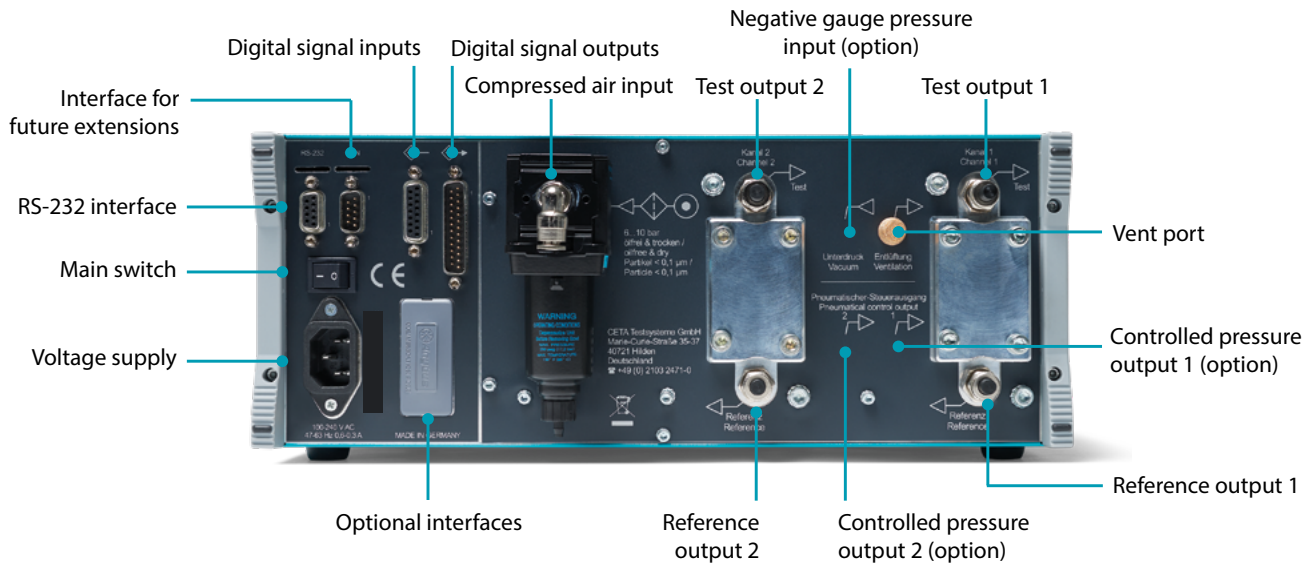
Test mode specific limits
Prefill pressure, filling pressure, test mode specific reject and rework levels

Handling
Intuitive menu including password protected user levels

Parameter memory
64 individually 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.

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* referred to full scale value

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

Interfaces		Start / Stop / Reset	Program selection	Device status / system errror	Evaluation (Pass / Fail)	Parameterization	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

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 cord, documentation and PC-software on CD, DAkkS calibration certificate, EU 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 Twin 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 / 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 | August 2023