CETATEST 715 Twin

CΞTA®

DKD   ilac-MRA   DAkkS
Deutsche
Akkreditierungsstelle
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Leak Tester CETATEST 715 Twin

The CETATEST 715 Twin is a fully automatic working leak tester for the detection of untight parts within the cycle time of the production process. The leak tester uses two gauge pressure sensors and has a large measurement range. Therefore the CETATEST 715 Twin is especially qualified for the simple testing of parts with large leakages. The differential pressure leak tester 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.

Operating methods

Two channel operation
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

Poppet valve

Processing

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

Pressure sensors

Two gauge pressure sensors

Measurement ranges

Max. +/-10,000 Pa, depending on the pressure range (resolution: 1 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 and mechanical pressure regulator on request

Test modes

Pressure decay measurement

Test options

Prefill (incl. repeated filling), program series, smooth filling, variable zero point, free programmable control valves for each program

System control

Supply pressure monitoring, consecutive zero results

Programmable test phases

Delay, filling, stabilising, measuring, venting
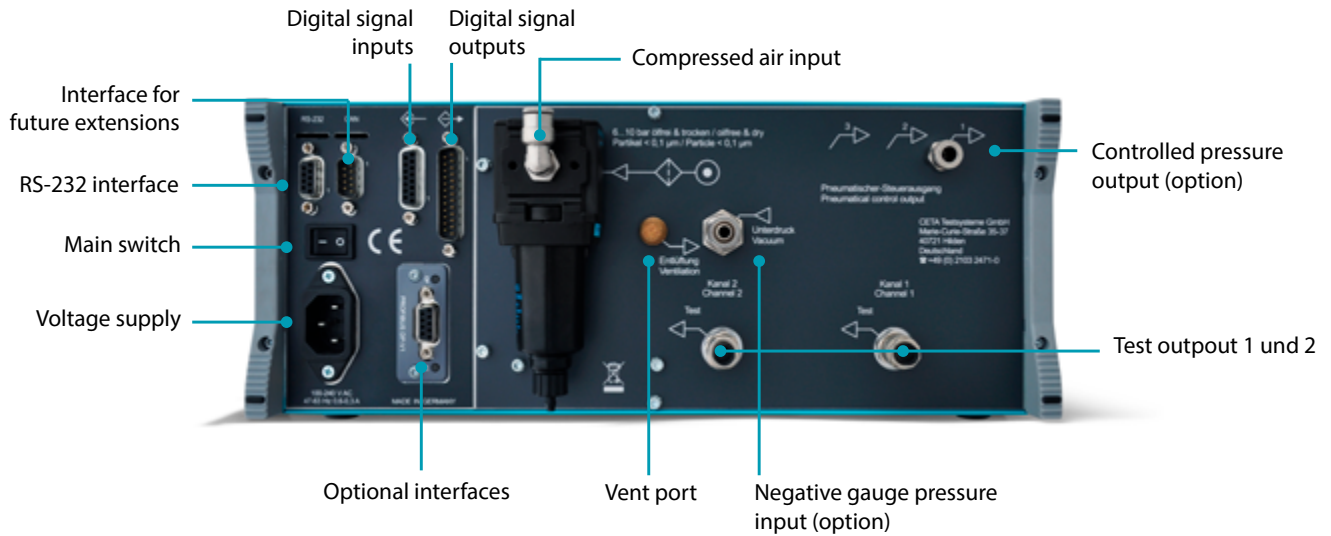
Test mode specific limits

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.

Interface for future extensions

RS-232 interface

Main switch

Voltage supply

Digital signal inputs

Digital signal outputs

Compressed air input

Controlled pressure output (option)

Test outpout 1 und 2

Optional interfaces

Vent port

Negative gauge pressure input (option)

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.

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]).
Test devices with pressure ranges higher than10 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. 11 kg

Included in delivery

Special packaging, power cord, documentation and PC-software on CD, factory 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 715 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, Twin tube, RS-232 protocoll converter, 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 | January 2019