CETA®

Application Software
CETA Soft 2G for free!

DKD   ilac-MRA   DAkkS
Deutsche
Akkreditierungsstelle
D-K-19566-01-00

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 on request

Maximum Deviations

Gauge pressure: 1 % *
Specification for combined devices based on positive gauge pressure
Pressure loss: 2 % *

Test modes

Pressure decay

Test options

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

System control

Supply pressure monitoring, consecutive zero results

Programmable test phases

Delay, filling, stabilising, measuring,
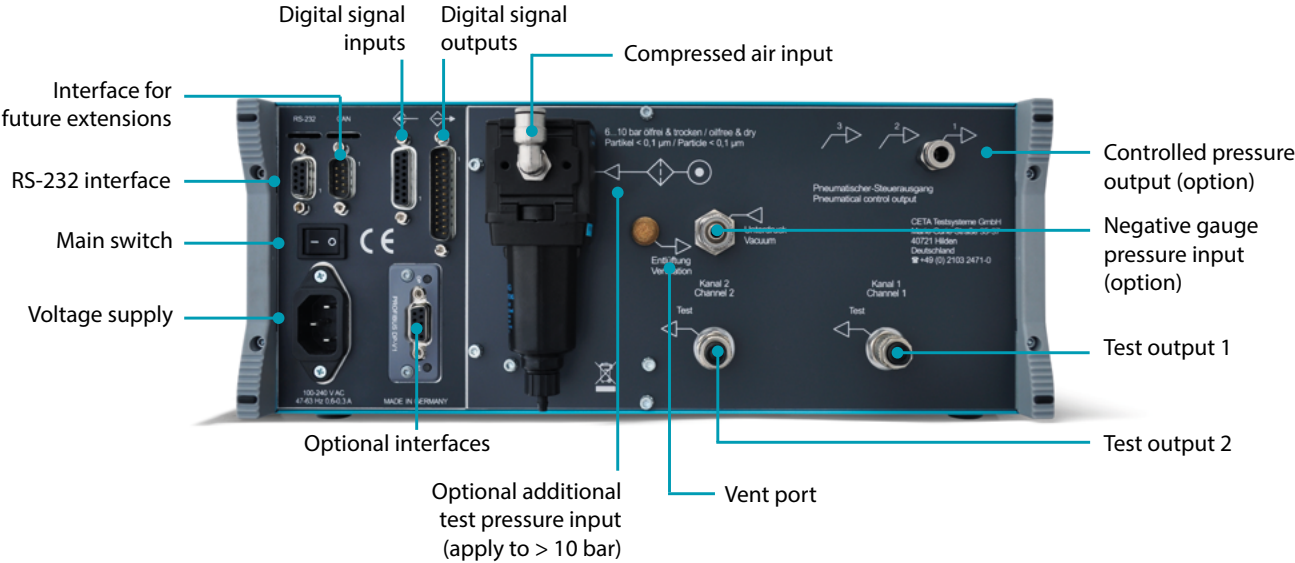venting

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.

* referred to full scale value

Digital signal inputs
Digital signal outputs
Compressed air input
Interface for future extensions
RS-232 interface
Main switch
Voltage supply
Optional interfaces
Optional additional test pressure input (apply to > 10 bar)
Vent port
Controlled pressure output (option)
Negative gauge pressure input (option)
Test output 1
Test output 2

	Interfaces	Start / Stop / Reset	Program selection	Device status / system errror	Evaluation (Pass / Fail)	Paramete-rization	Measu-rement 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 three pneumatically driven outputs (option)

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

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 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, RS-232 / Ethernet adapter, application software CETA Soft 2G (limited scope of services), scanner interface, more in the CETA accessories catalogue.