CETA®

Application Software
CETA Soft 2G for free!

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

The CETATEST 715 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 a gauge pressure sensor and has a large measurement range. Therefore the CETATEST 715 is especially qualified for the simple testing of parts with large leakages.

Operating methods

One channel operation

Signal processing

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

Valve types

Sliding valve or poppet valve

Processing

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

Pressure sensor

Gauge pressure sensor

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, 20 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

Maximum Deviations

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

Test modes

Pressure decay
Optional: dynamic pressure, test of sealed components

Test options

Test repetition / automatic test time adjustment, prefill (incl. repeated filling), program series, smooth filling, variable zero point, free programmable control valves

System control

Supply pressure monitoring, consecutive zero results

Programmable test phases

Reservoir filling, flooding, refilling, delay, filling, stabilising, measuring, venting
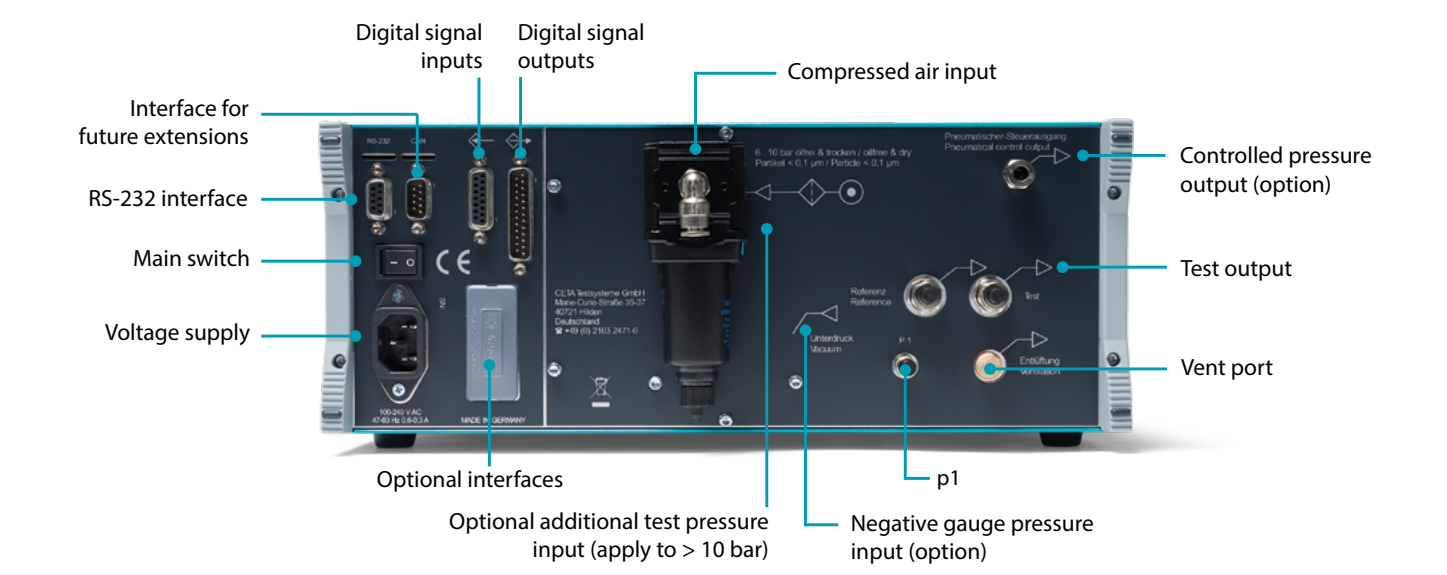
Test mode specific limits

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
Controlled pressure output (option)
Test output
Vent port
Optional interfaces
Optional additional test pressure input (apply to > 10 bar)
Negative gauge pressure input (option)
p1

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	■	■	■	■					
Standard	RS-232	■	■	■	■	■	■	■	■	■
Standard	USB Host (Front)				■	■	■	■		
Option (one selectable)	Profibus DP	■	■	■	■	■	■	■	■	■
Option (one selectable)	Profinet	■	■	■	■	■	■	■	■	■
Option (one selectable)	Ethernet	■	■	■	■	■	■		■	■
Option (one selectable)	EtherCAT	■	■	■	■	■	■	■	■	■

Further interfaces (e.g. Bluetooth, WiFi & USB Slave) on request. The optional RS-232 protocol converter enables the exchange of a CETATEST 710 that communicates via RS-232, against a CETATEST 715.

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]).
Test devices with pressure ranges higher than 10 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: approx. 10 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 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, scanner interface, more in the CETA accessories catalogue.

Subject to modification due to technical progress | August 2023