Leak Tester CETATEST 815

Operating principle	The CETATEST 815 is a fully automatic working leak tester for the detection of leaking parts within the cycle time of the production process. The pressure in the test part volume due to a leakage is compared with the pressure in a tight reference volume (differential pressure method).
Operating method	One channel operation
Signal processing	Fast 24-Bit-A/D-Converter (internal resolution: effective 0.01 Pa) Real-time processing of the measurement signals
Valve types	Depending on the application: sliding valve or poppet valve
Processing	Real time microcontroller system, 16-Bit µC / 40 MHz
Sensors	Differential pressure sensor, relative pressure sensor
Measurement ranges	± 500 Pa / ± 5,000 Pa (displayed 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
Electronically regulated test pressure ranges	-1 bar, 200 mbar, 1 bar, 6 bar, 10 bar, 20 bar, 30 bar negative gauge pressure and positive gauge pressure ranges can be combined, other pressures and mechanical pressure regulator on request
Test modes	Pressure loss Optional: sealed component, RAM pressure, pressure steps, pressure rise (with double leak connector)
Test options	Prefill (multiple filling), program series, smooth filling, analysis of the filling and stabilizing curve, consecutive zero results, temperature compensation, variable zero point, test repetition/automatic test time adjustment, free programmable control valves for each program
System control	Still-Alive-Check with differential pressure sensor control, patented automatic function control (option), control of the compressed air supply
Programmable test phases	Delay, pre-filling, filling, stabilizing, measuring, venting; reservoir filling, re-filling
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 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.

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	Function	Digital I/O (Standard)	RS-232 (Standard)	Profibus DP (Option)	Ethernet (Option)
Further functions	Detailed result statistics, cycle counter, indicator for service intervals, countdown indicator, registration of parameter change, recording of measurement series and measurement curves, Dynamic Link Library (DLL) for RS-232 interface programming				
Interfaces	Start / Stop / Reset	X	X	X	X
	Program Selection	X	X	X	X
	Device Status / System Fault	X	X	X	X
	Evaluation (Pass / Fail)	X	X	X	X
	Parameterization		X	X	X
	Measurement Results		X	X	X
	Detailed Fault Messages		X	X	X

Further interfaces on request

The optional RS-232 protocol converter enables the exchange of a CETATEST 810 that communicates via RS-232, against a CETATEST 815.

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 (ISO 8573-1)
Pneumatic connections	Input (compressed air supply): 6 mm plug-in fitting Port for test part: fitting for 6 x 1 mm polyamide tubes Up to three pneumatically driven outputs [option]
Dimensions	Width: 345 mm, Height: 145 mm (3U), Depth: 435 mm
Weight	Approximately 10 kg
Included in delivery	Special packing, mains cable, documentation on CD, EC-Declaration of Conformity, calibration certificate, D-Sub-plug including cable for inputs and outputs (PLC-communication)
DKD-Calibration and DKD-Certificate	New CETATEST 815 (pressure range -1 to 17 bar, 500 Pa measurement range) are delivered with DKD-certificate without extra costs. [DKD = Deutscher Kalibrierdienst = German Calibration Service]
Accessories (optional)	Filter combination, standard leak, leak tight 3/2-way-valve, RS-232 / Ethernet adapter, control- and evaluation software, further equipment in the CETA accessories catalogue

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