

# Leak Tester CETATEST 815



<b>Operating principle</b>	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).
<b>Operating methods</b>	One channel operation
<b>Signal processing</b>	Fast 24-Bit-A/D-Converter Real-time processing of the measurement signals
<b>Valve types</b>	Depending on the application: sliding valve or poppet valve
<b>Processing</b>	Real time microcontroller system, 16-Bit $\mu\text{C}$ / 40 MHz
<b>Sensors</b>	Differential pressure sensor, relative pressure sensor
<b>Measurement ranges</b>	$\pm 500 \text{ Pa}$ / $\pm 5.000 \text{ Pa}$ (resolution: 1 Pa); other ranges on request
<b>Result units</b>	Pa, hPa, psi, Pa/s, hPa/s, mbar*l/s, ml/min, ml/h, l/min, l/h
<b>Test pressure ranges</b>	-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 (e.g. -1 bar / +1 bar), other ranges on request, mechanical pressure regulator on request
<b>Test modes</b>	Pressure decay Optional: sealed component, RAM pressure, pressure steps, pressure rise
<b>Test options</b>	Prefill, smooth filling, analysis of the filling curve, temperature compensation
<b>System control</b>	Still-Alive-Check with differential pressure sensor control, patented automatic function control (option), control of the compressed air supply
<b>Programmable test phases</b>	Delay, pre-filling, filling, stabilisation, measuring, venting; reservoir filling, re-filling
<b>Test mode specific limits</b>	Prefill pressure, filling pressure, test mode specific reject and rework levels
<b>Handling</b>	Intuitive menu including password protected user levels
<b>Parameter memory</b>	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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**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	Function	Digital I/O (Standard)	RS-232 (Standard)	Profibus DP (Option)	Ethernet (Option)
	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

**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, further equipment in the CETA accessories catalogue

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