

# Leak Detector CETATEST 510



<b>Operating principle</b>	The CETATEST 510 is a full automatically working leak detector for the detection of untight parts within the cycle time of the production process. The leak detector is available in three different types. The configuration “ <b>closed components - high resolution</b> ” can be used for test parts, which can not be filled, so called “closed components”. It is possible to detect very small ratios of test part volumes [0,03 ml < $\Delta V$ < 1,0 ml). The type “ <b>pressure loss - high speed</b> ” can be used for leak tests of very small test parts in high speed production cycles. The configuration “ <b>pressure rise</b> ” has a higher measurement signal (compared to the CETATEST 810) and integrated components (e.g. stop valve, primary pressure control), which are normally part of the external measurement circuit.
<b>Sequence controller</b>	Multi-microcontroller system
<b><math>\Delta p</math>-sensor</b>	Piezo-resistive differential pressure transducer
<b>Test pressure sensor</b>	Piezo-resistive gage pressure sensor
<b>Measurement range and resolution</b>	400 Pa in 1-Pascal-steps Other ranges on request
<b>Result units</b>	Pa, Pa/s, ml/min, ml/h
<b>Test mode</b>	Pressure loss, prefill (option), test of closed components in high resolution (option A), high speed pressure loss measurement (option B), pressure rise measurement [indirect] (option C) [A, B and C are alternative options, which cannot be combined]
<b>Control and security systems</b>	Still-Alive-Check of the differential pressure sensor
<b>Electronically regulated test pressure ranges</b>	Negative gage pressure, 200 mbar, 1 bar other ranges on request
<b>Alphanumeric display</b>	LC display (240 x 128 Pixel)
<b>Programmable test parameter</b>	Test pressure, pressure limits, delay time, fill time, stabilization time, test mode depending limits, measurement time, exhaust time, reject level, rework level, program series (option)
<b>Functionality</b>	Simple, flexible menus with copy function
<b>Parameter Memory</b>	64 test programs
<b>Parameter Storage</b>	Entered data remain stored without line voltage (up to 10 years).
<b>Access Control</b>	By means of a four digit code number (can be deactivated)
<b>Pass and fail counter</b>	Per program
<b>Acknowledge-Reset</b>	Switchable
<b>Evaluation</b>	Pass indicator (green), fault indicator (yellow), fail indicator (red)

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<b>Dimensions</b>	Width: 345 mm, Height: 145 mm (3 RU), Depth: 435 mm			
<b>Interfaces</b>		8 digital I/O (Standard)	RS 232 (Standard)	Profibus DP (Option)
	Input and Output			
	Start / Stop / Reset	X	X	X
	Program Choice	X	X	X
	Device Status / System Fault	X	X	X
	Evaluation (Pass / Fail)	X	X	X
	Parameterisation		X	X
	Measurement Results		X	X
	Detailed Fault Messages		X	X
	Option: Second plug-in board with 8 free programmable outputs			
<b>Power supply and power consumption</b>	90 - 260 V AC, 50/60 Hz, 45 W, alternative: 20 - 30 V DC, 45 W			
<b>Compressed air supply</b>	1 bar above test pressure, but at least 5,5 bar (ISO 8573-1)			
<b>Pneumatic connections</b>	Input (compressed air supply): 6 x 1 mm slide-on receptacle Port for test part : 3 x 1,7 mm fitting			
<b>Advice</b>	The use of fittings from Camozzi is recommended.			
<b>Maintenance recommendation</b>	The CETATEST 510 has a build-in cycle counter. If this counter exceeds the preset value (set by CETA before delivery of the device), the test device gives a maintenance warning. This warning should be seen as a recommendation to ensure the proper function of the test device. The preset value can be changed by the CETA Service			
<b>Weight</b>	Approximately 10 kg			
<b>Included in delivery</b>	Special packing, power cord, user manual, declaration of conformity (CE), calibration certificate, D-Sub-plug including cable for inputs and outputs (PLC-communication)			
<b>DKD-Calibration and DKD-Certificate</b>	New CETATEST 510 (pressure range -1 to 17 bar, 400 Pa measurement range) are delivered with DKD-certificate without extra costs. [DKD = Deutscher Kalibrierdienst = German Calibration Service]			
<b>Accessories (optional)</b>	Application software CETA Soft, filter combination, standard leak, leak tight 3/2-way-valve, more in the CETA accessories catalogue			
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