



Application Software
CETA Soft 2G for free!

Mass Flow Tester CETATEST 615 - for the leak test of large volume parts

The CETATEST 615 is a fully automated mass flow tester for the detection of small leaks in large volume test parts. The measurement method is based on the principle of the thermal mass flow measurement.

By using a previously pressurised reservoir volume leakages can be measured without the disturbing effects of a pressure regulation. Temperature effects are automatically compensated. The mass flow caused by the leakage is displayed directly for standard conditions, which can be parameterised.

Operating methods

One channel operation

Signal processing

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

Processing

Real time microcontroller system,
16-bit μ C / 40 MHz

Sensors

Gauge pressure sensor
Thermal mass flow sensor

Measurement ranges

0 - 10 ml/min, 0 - 25 ml/min
(displayed resolution: 0.01 ml/min),
other ranges on request

Result units

Nml/min, Nml/h, NI/min, NI/h,
scc/min, scc/h, sl/min, sl/h, mbar³/s

Pressure ranges

200 mbar, 1 bar, 6 bar, 10 bar,
other pressure ranges and mechanical
pressure regulator on request

Test options

Program series

System control

Control of the compressed air supply,
consecutive zero results

Programmable test phases

Delay, reservoir filling, flooding, filling,
stabilising, measuring, venting

Test mode specific limits

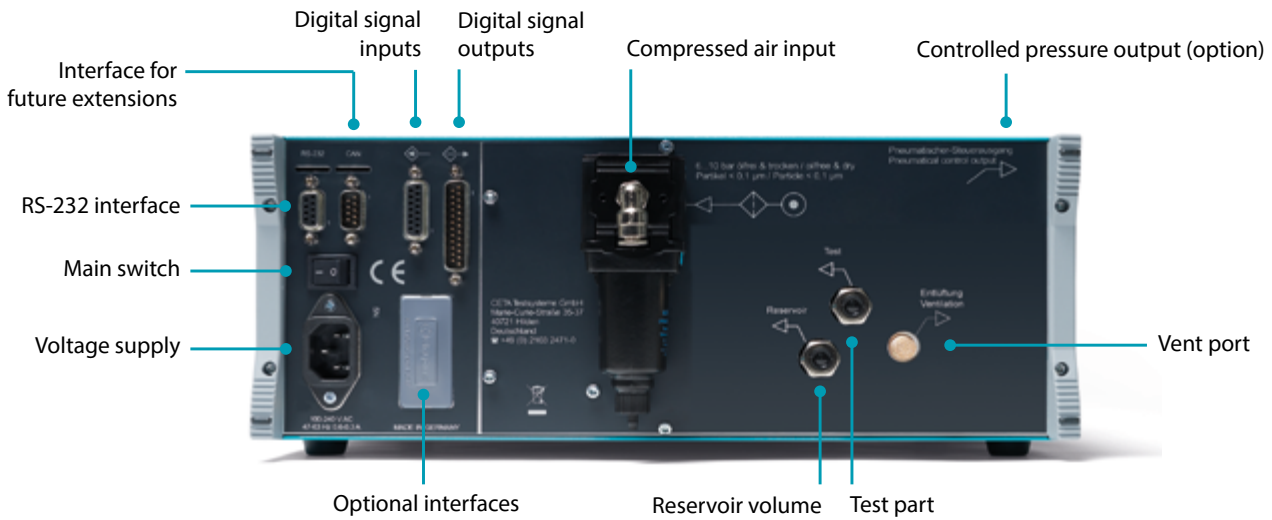
Reservoir pressure, test pressure, test part
specific reject and rework levels

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.



Interfaces

Function	Start / Stop / Reset	Program selection	Device status / system fault	Evaluation (Pass / Fail)	Parameterization	Measurement results	Detailed fault messages
Digital I/O (standard)	■	■	■	■			
RS-232 (standard)	■	■	■	■	■	■	■
Profibus DP (option)	■	■	■	■	■	■	■
Profinet (option)	■	■	■	■	■	■	■
Ethernet (option)	■	■	■	■	■	■	■
EtherCAT (option)	■	■	■	■	■	■	■

Further interfaces 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 / 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 8573-1:2010 [1:4:1]).

Pneumatic connections

Input (compressed air supply): 6 mm plug-in fitting

Port for test part: 8 x 1 mm fitting
 Port for reservoir: 8 x 1 mm fitting
 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: appr. 10 kg

Included in delivery

Special packaging, power cord, documentation on CD, 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

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.

