



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  $\mu$ C / 40 MHz

#### Sensors

Gauge pressure sensor  
Thermal mass flow sensor

#### Measurement ranges

Sensor type 1:  
0 - 10 ml/min, 0 - 25 ml/min, 10 - 600 ml/min  
Sensor type 2: -20 to +20 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, mbar $\cdot$ l/s

#### Pressure ranges

200 mbar, 1 bar, 2 bar, 6 bar, 10 bar,  
negative 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  
Mass flow sensor type 1: 1 % \*  
Mass flow sensor type 2:  
Forward direction:  
0.2 - 5.0 ml/min: 0.5% \*  
> 5.0 - 20.0 ml/min: 2% \*\*  
Backward direction:  
0.2 - 2.0 ml/min: 0.5% \*  
> 2.0 - 20.0 ml/min: 5% \*\*

#### 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

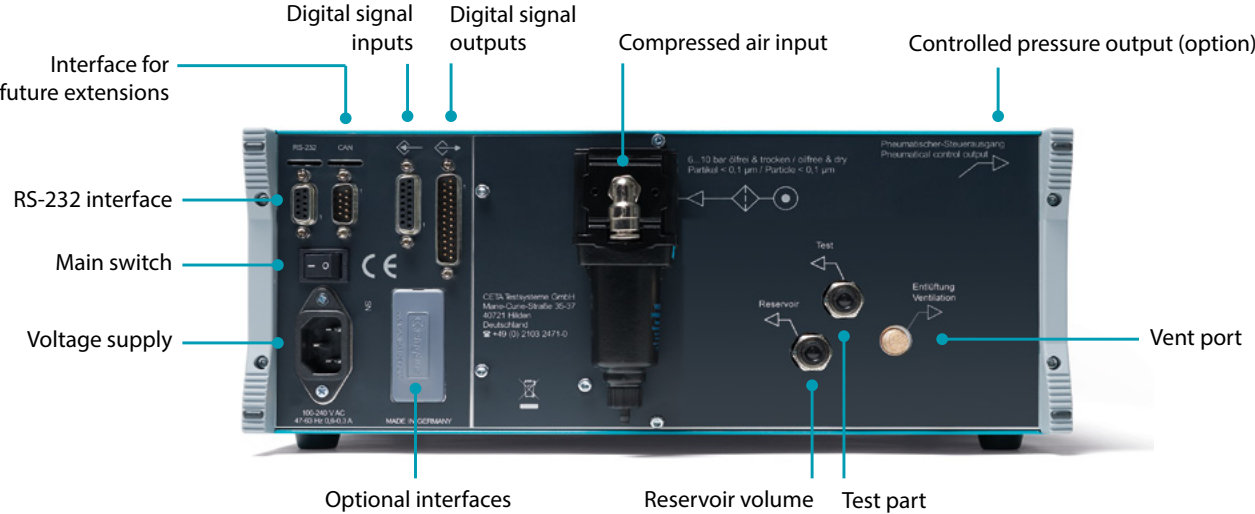
Reservoir pressure, test pressure, test part  
specific reject and rework levels

#### 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		Start / Stop / Reset	Program selection	Device status / system error	Evaluation (Pass / Fail)	Parameterization	Measurement results	Measurement curve	Phase information in real time	Error messages
Standard	Digitale I/O	■	■	■	■					
	RS-232	■	■	■	■	■	■	■	■	■
	USB Host (Front)				■	■	■	■		
Option (one selectable)	Profibus DP	■	■	■	■	■	■	■	■	■
	Profinet	■	■	■	■	■	■	■	■	■
	Ethernet	■	■	■	■	■	■	■	■	■
	EtherCAT	■	■	■	■	■	■	■	■	■

Further interfaces (e.g. Bluetooth, WiFi & USB Slave) 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: approx. 10 kg

Scope of 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.