



Application Software  
CETA Soft 2G for free!



### Mass Flow Tester CETATEST 625 - for the leak test of large volume parts

The CETATEST 625 mass flow tester is used for quality assurance in the production process. The testing method is based on the measurement of the mass flow rate according to the calorimetric (thermal) principle. Depending on the technical configuration (measuring range of the mass flow sensor), the CETATEST 625 can be used in the indirect mode for leak testing large-volume products with small leak rates or in the direct mode to measure larger mass flow rates (up to 60 NI/min). In indirect mode, small leak rates are measured by flooding the test pressure from a previously filled reservoir volume without the disturbing influences of a pressure regulation. The mass flow rate can be directly converted to parameterisable reference conditions.

#### System architecture

Industrial PC: Quad Core CPU, 1.8 GHz,  
4 GB RAM, 128 GB SSD,  
Micro-controller system for the test  
process control: 32-bit ARM  $\mu$ C / 84 MHz

#### Signal processing

Fast 24-bit A/D converter, real-time  
processing of measurement signals

#### Operation modes

Indirect mode: Indirect pressurisation via  
reservoir for small mass flow rates (up to  
60 Nml/min)  
Direct mode: Direct pressurization via  
pressure regulator (from 60 Nml/min)

#### Sensors

Gauge sensor  
Thermal mass flow sensor

#### Measurement ranges

0,2 - 10 Nml/min, 0,5 - 25 Nml/min,  
12 - 60 Nml/min, 3 - 150 Nml/min,  
6 - 300 Nml/min, 12 - 600 Nml/min,  
1,2 - 60 NI/min

#### Result units

Nml/min, Nml/h, NI/min, NI/h,  
scc/min, scc/h, sl/min, sl/h, mbar·l/s

#### Pressure ranges

200 mbar, 1.000 mbar, 6 bar, 10 bar, other  
ranges on request

#### Maximum Deviations

Gauge Pressure: 1 % \*  
Mass flow sensor: 1 % \*

#### Test options

**Standard:** Nominal pressure optimisation  
Direct mode: prefill, pulsing, smooth filling

**Optional:** programm series, barometric  
correction, free programmable control  
valves

#### Operation

Touchscreen, dual jog dial, separate start/  
stop-buttons, password protected user  
level

#### Display

7-inch color screen, various graphical  
diagrams (measurement curves, histogram,  
measurement series overview), list of  
results

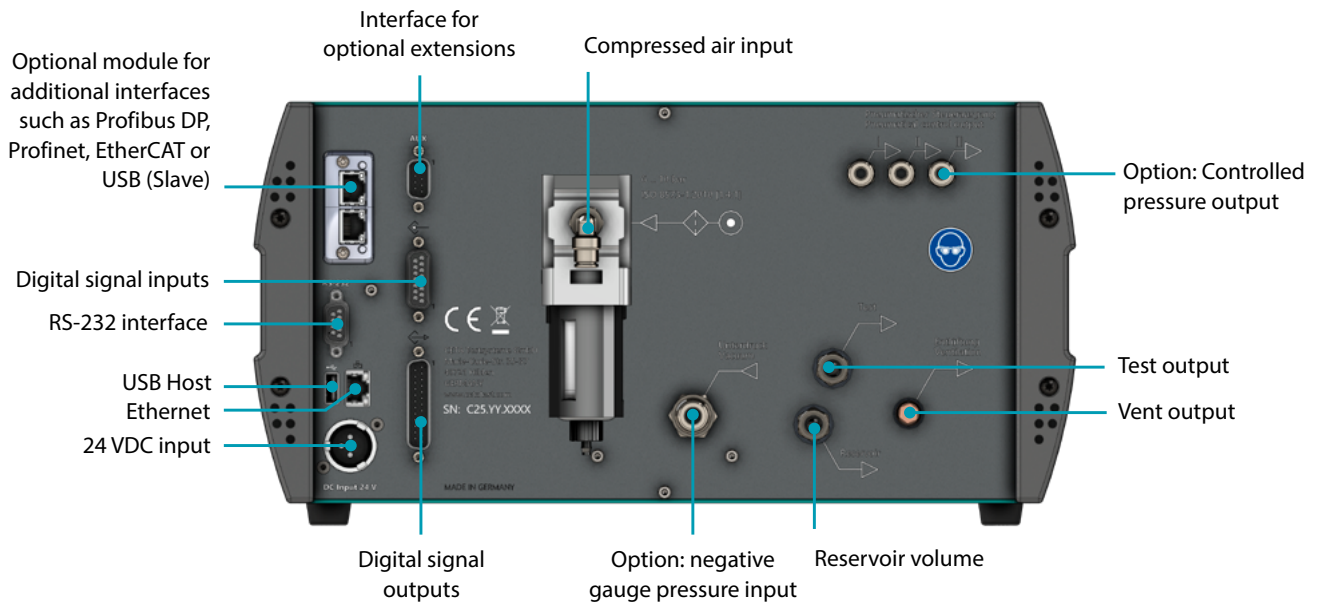
#### System monitoring

Supply pressure monitoring

#### Memory

For more than 1 million measurement  
results, 256 individually parameterisable  
test programs with alpha-numeric  
program names, export / import of test  
programs via device interfaces or by usage  
of a USB storage device

\* referred to full scale value



### Interfaces

I/O interface for start/stop/reset, program selection, device status, system errors, test results (pass/fail)

RS-232, USB (host), Ethernet and optional interfaces allow additional functions like parameterisation, measurement results, detailed information in real time (e. g. measurement curve), failure messages.

An optional module can be used to implement additional interfaces such as Profibus DP, Profinet, EtherCAT or USB (Slave).

The CETATEST 625 is fully interface compatible with the CETATEST 615 and well prepared for Industry 4.0 requirements.

### Further functions

Result statistics, cycle counter, recording of measurement series and measurement curves, Dynamic Link Library (DLL) for RS-232 interface programming, integration of test part image / barcode / QR code, user administration, export of test parameters, measurement curves and measurement series to USB storage media.

### Power supply | Power consumption

Test device: 24 VDC / max. 50 W  
 External power supply (optional):  
 Input 100 - 240 VAC / 47 - 63 Hz  
 Output 24 VDC  
 UL certified power supply unit

### Air supply

6 - 10 bar, min. 0.5 bar above test pressure  
 ISO 8573-1:2010 [1: 4: 1]

### Pressure connection

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 two pneumatically driven outputs (option)

### Dimensions | Weight

W x H x D: 367 mm x 183 mm (4 U) x 435 mm  
 Weight: approx. 12,5 kg

### DAkKS-accredited calibration

All leak, mass and flow testers as well as pressure manometers and calibration standards are delivered with a DAkKS-accredited calibration certificate in accordance with DIN EN ISO/IEC 17025 at no extra cost.

DAkKS = German Accreditation Body

### Scope of delivery

Special packaging, documentation on device, DAkKS-accredited calibration certificate, EU declaration of conformity, 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)

Power supply with UL certification, power cord, filter combination, external reservoir volume incl. thermobox, test leak or master jet, inline switchable test leak, D-Sub connector incl. cable for inputs and outputs (PLC communication), leak-tight 3/2-way valve, RS-232 / Ethernet adapter, CETA Soft 2G application software, scanner interface, further accessories in the CETA accessories catalogue.