

Typical Applications

Leak Testing

Method	Test Parts
Direct fillable test parts	Gear box covers, headlamps, reservoirs
Capsuled test parts	Micro electronic devices, sensors, clocks, lamps
Inner and outer leak tightness	Coolers, gear boxes, ball valves
Pressure rise	Valves, coolers, heat exchangers

Flow Measurement

Method	Test Parts
Flow test	Coolant passages, tubes, exhaust-gas-systems, membranes, valves
Mass flow test	Large volume test parts with small leak rates
Continuity test	Pipes, valves, openings
Dimensional accuracy	Cross section of tubes and pipes

Pneumatic Controls

Method	Application
Existence test	Assembly control
Pressure test	Pneumatic tests, multiple pressurisation
Functional test	Opening points, closing points
Volume determination	Adaption control, error prevention („poka yoke“)

Examples for Test Parts



Automotive Industry

Electronic control units
Lamps
Sensors
Switches
Valves

Climate Industry

Heat exchangers
Pipes

Consumer Products

Spray cans
Text markers

Electromobility

Electric axle drives
Displays for e-bikes
Charger boxes
Charging connectors
Fuel cell stacks

Electronics Industry

Connectors
Photoelectric barriers
Microswitches
Relays

Fittings Industry

Ball valves
Fittings
Sanitary armatures

Household Appliances Industry

Clocks
Thermostats
Electric toothbrushes
Electric razors

Medical Technology

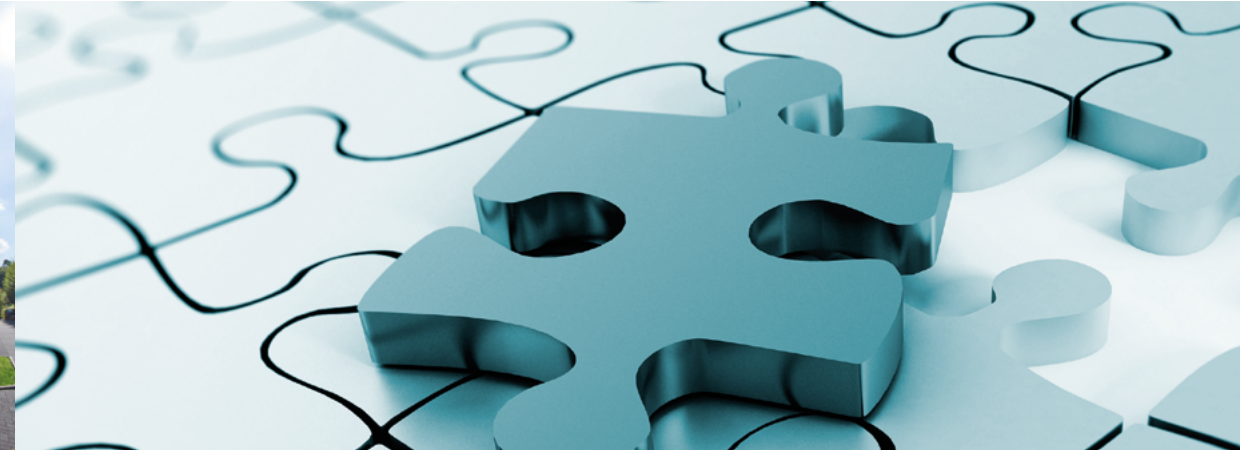
Inhalator cartridges
Insulin pumps
Medicine bottles
Syringes

Packaging Industry

Doypack pouch with spout
Bags for concentrates
Intermediate Bulk Container (IBC)
Drums, Bottles

Valves

Overpressure valves
Pneumatic valves
Tyre valves
Hydrogen valves



CETA Testsysteme GmbH

CETA is a manufacturer of physical test devices („Made in Germany“) for **industrial leak testing and flow measurements** in the production line. Due to different test device technologies and a wide scope of pressure and measurement ranges nearly every test requirement can be fulfilled.

Customers from the **automotive industry, medical technology, heating and air conditioning industries, fittings and house-hold appliances industry, packaging industry and E-mobility** use CETA test devices for **quality control and production assurance**.

CETA is certified according to DIN ISO 9001. Since 2004 the calibration laboratory has been accredited according to **DIN EN ISO/IEC 17025** as a DKD calibration laboratory respectively as a **DAkkS calibration laboratory** for the measurand pressure (D-K-19566-01-00).

With more than **35 years of experience**, longstanding excellent creditworthiness, international representations as well as **several thousands of test devices worldwide**, CETA Testsysteme GmbH presents itself as a competent solution partner for industrial leak testing and flow measurement.

CETA Testsysteme GmbH

Marie-Curie-Str. 35-37 | 40721 Hilden - Germany
Tel +49 2103 2471 - 75 | Fax +49 2103 2471 - 76
sales@cetatest.com | www.cetatest.com

CETA Testsysteme GmbH

Solution Partner for Industrial Leak Testing and Flow Measurement

- Leak testing down to leak rates of 10^{-6} mbar • l/s
- Leak testing of gas- and liquid-filled test parts
- Flow testers with compressed air
- Pneumatical tests and functional tests



Gauge Pressure Test Devices

CETATEST XS Series



Leak testers with gauge pressure sensor

Test medium: compressed air

Compact, cost-effective test device

Suitable for leak-testing with short test times

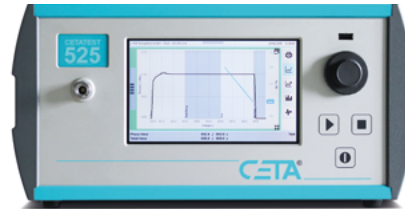
Measurement range up to 10,000 Pa

Interfaces:

RS-232, Digital I/O (Standard)

Differential Pressure Test Devices

CETATEST 525 Series



Leak testers with differential pressure sensor

Test medium: compressed air

Industrial PC with 7" touchscreen

Test device variants

- Sealed Components – High Resolution
- Pressure Decay – High Speed

Optimised for the leak testing of small test parts in high speed production processes with high resolution

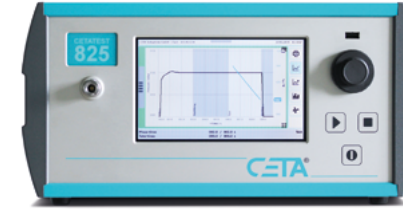
Measurement ranges: 500 Pa, 5,000 Pa

Ethernet as standard interface

Further industrial interfaces available

Differential Pressure Test Devices

CETATEST 825 Series



Leak testers with differential pressure sensor

Test medium: compressed air

Industrial PC with 7" touchscreen

Multitude of pressure ranges and test modes available

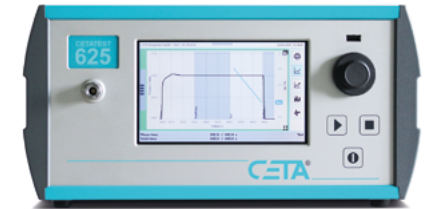
Measurement ranges: 500 Pa, 5,000 Pa

Ethernet as standard interface

Further industrial interfaces available

Mass Flow Testers

CETATEST 625 Series



Mass flow testing for the detection of small leaks in large volume test parts.

Leak testers with gauge pressure sensor and thermal mass flow sensor

Test medium: compressed air

Industrial PC with 7" touch-screen

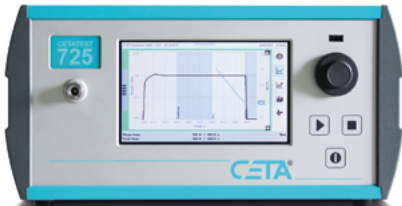
Measurement ranges: 10 Nml/min, 25 Nml/min, 150 Nml/min, 300 Nml/min, 600 Nml/min, 60 Nl/min

Ethernet as standard interface

Further industrial interfaces available

Gauge Pressure Test Devices

CETATEST 725 Series



Leak testers with gauge pressure sensor

Test medium: compressed air

Industrial PC with 7" touch-screen

For the leak testing of parts with large leakages

Multitude of pressure ranges and test modes available

Measurement range up to 10,000 Pa

Ethernet as standard interface

Further industrial interfaces available

Differential Pressure Test Devices

CETATEST 815 Series



Leak testers with differential pressure sensor

Test medium: compressed air

Multitude of pressure ranges and test modes available

Two-channel version available

High pressure version for test pressures up to 400 bar

Low pressure version for +/- 5 mbar, +/- 50 mbar

Measurement ranges: 500 Pa, 5,000 Pa

Industrial interfaces available

Tracer Gas Test Devices

Hydrogen Leak Tester



Leak testing with tracer gas

Testing of directly fillable test parts and gas- or liquid-filled products

Test media: forming gas, tracer gases

Broadband measurement of a wide range of contents

Detectable leak rates down to 10^{-6} mbar • l/s

Modular design and low-cost scalability

Sensitive to forming gas 5 (hydrogen), alcohols, solvents, volatile organic mixtures (VOC)

Flow Testers

CETATEST 915 Series



Flow Tester for volume flow measurement

Test medium: compressed air

Flow determination by measuring the pressure decay in a laminar flow element (LFE)

Measurement range: 3 ml/min to 200 l/min (depending on LFE)

Available with flow calibration with up to 4 LFE pressures

Mechanical or electronical pressure regulator

Industrial interfaces available