



## CETA Testsysteme GmbH

### Solution Partner for industrial Leak Testing and Flow Measurement

#### Production-integrated leakage and flow testing

Products that are used in environments exposed to moisture or harsh environmental conditions must meet a variety of requirements. These include tightness against dirt and moisture. The requirements are described in the definition of IP protection classes. These IP protection class tests are type tests of samples in the laboratory. But what happens if during the production of large quantities the manufacturing conditions in the production line do not correspond to those of the type sample or change gradually and this has an effect on the tightness of the products?

When leaky products are delivered, it is too late to take corrective action. For this reason, many products are tested for leaks during production. This ensures the **quality of each individual product**.

#### Test media: compressed air and hydrogen

For more than 35 years CETA Testsysteme GmbH has been working with great success as a solution partner and manufacturer of physical test devices. These devices are used for industrial leak tests and flow measurements for 100 % routine testing in the production line. Compressed air and hydrogen are used as test media. These test methods are characterised by the fact that they can be integrated into the assembly line in a process-secure manner.

#### Highest product quality

The test devices (Made in Germany) are in-house developments. Important components and accessories (e.g. calibration standards) are also manufactured in-house. This meets the high demands on the quality of the internal modules. Extensive tests before delivery ensure the high quality of the test devices. An integrated monitoring of the correct device function guarantees a special degree of process reliability. The test devices are equipped with a 3-year warranty period, which impressively underlines the high quality and reliability.



## Wide range of applications

A comprehensive range of testing equipment allows the right solution to be found for practically any testing application. The test devices are used by the customer for quality assurance, quality control and production assurance in the assembly line or at the individual test station. The customers are mainly from the automotive industry, medical technology, heating and air conditioning industry, fittings and household appliances industry, packaging industry and e-mobility.



## Competent project management

Every project starts with a project clarification. Hereby the technical feasibility of each project is checked (sometimes also based on measurements with test parts of the customer), the technical configuration of the suitable test device is selected and the number of test devices required in the production line is determined. The submission of the quotation confirms the feasibility under the conditions agreed upon in advance. This gives the customer the certainty that the solution offered will work reliably in practice.

## Consistent focus on quality

The company is certified according to DIN ISO 9001 and won the NRW Quality Award in the industry sector in 2002. The calibration laboratory was accredited in 2004 by the German Calibration Service (DKD). In 2014 it was accredited by the German Accreditation Body (DAkkS), as successor of the accreditation body of the DKD, as DAkkS calibration laboratory for the measurand pressure. The DAkkS calibration (conforming to the standard DIN EN ISO/IEC 17025) meets the requirements of the standard IATF 16949, which is valid in the automotive industry. CETA Testsysteme GmbH is the first German manufacturer of leak testers to deliver its test devices with a DKD calibration certificate as standard since 2004 and now with a DAkkS calibration certificate. Since 2012 CETA has been certified with an „excellent credit rating“ throughout.

## High customer satisfaction

CETA customers appreciate the longevity, the high quality of the test devices, the on-time delivery, the longtime experience and high competence in the solution of applications and project management. Due to the high customer orientation it becomes more and more obvious that CETA is consulted in a very early phase of the product development.

## Worldwide use and international representations

With international cooperation partners in China, India, Indonesia, Korea, Mexico, Poland, Portugal, Singapore, Thailand, Czech Republic, Turkey and Hungary as well as several thousand test devices used worldwide, CETA Testsysteme GmbH presents itself as a competent solution partner for industrial leak and flow testing.

## Typical applications

With the CETA product portfolio a multitude of applications can be handled.

### Leak test

Directly fillable test parts  
Encapsulated components  
Internal and external tightness  
Pressure rise  
Hydrogen leak test

Tracer gas method

### Flow test

Flow

Mass flow testing  
Continuity test  
Dimensional accuracy

### Pneumatic tests

Existence tests  
Pressure tests  
Function tests  
Volume determination

### Application

Gearbox covers, containers, headlamps  
Microassemblies, sensors, watches, lights  
Coolers, ball valves, gearboxes  
Valves, coolers, heat exchangers  
Detection of smallest leakage rates  
down to  $10^{-6}$  mbar\*l/s  
Gas and liquid filled products

### Application

Cooling channels, membranes, exhaust systems,  
pressure compensation elements, valves, pipes  
Large-volume test parts with low leakage rate  
Pipes, valves  
Cross sections of pipes and cables

### Application

Assembly control  
Pressure test, multiple pressurisation  
Opening points, closing points  
Adaptation control, error prevention „Poka Yoke“

## Our strengths

- Testing technology „Made in Germany“
- Test media compressed air and hydrogen
- More than 35 years of experience
- Several thousand test devices worldwide
- Excellence Made in Germany - Certified Company
- High-grade product quality
- Comprehensive project support
- International representatives
- Excellent credit-worthiness
- DAkkS Calibration Laboratory ISO/IEC 17025
- 3 years warranty

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