

**measure
control
calibrate**

**mesurer
régler
calibrer**

Errors excepted, subject to technological changes.

**Circulation
Pression
Étanchéité**

**Flow
Pressure
Tightness**

Your reliable partner in quality assurance

The history of TetraTec Instruments GmbH in its present form began in 2002 with the merger of two companies, "TetraTec Software and Engineering GmbH", founded in 1993, and "EP Instruments Measuring Technology and Calibration GmbH", established in 1996.

The formal merger was the result of many years of cooperation between the two original companies since 1996 in the development, manufacture and application of measuring, testing and control systems, electronics and sensors for measuring pressure, flow and leakage in air and gases.

Know-how and expert knowledge from the test bench led to the creation of modular, adaptable measurement systems. This allows complex test and measurement tasks to be solved transparently. The integration into automated processes is facilitated by the decentralized autonomy. Based on our experience in testing and measurement technology, the focus of our work remains, above all, the reproducibility of the physical representation of measured variables and the ability to link these back to national standards. Particularly in applications which determine the physical dimensions of pressure, flow and leakage in air and pure gases of all types, we offer solutions for the future.

Advanced technology thrives on the wealth of ideas emanating from engineers and their perseverance in transforming them into practical use. Extensive expertise in both conception and application, as well as the courage to try unusual solutions, are important prerequisites for the successful accomplishment of complex measurement tasks.

Flexibility and customer focus are our fundamental principles. From our talks with customers, we tread new paths which combine well-established processes with new technologies. The starting point of our business is to discover modern, customer-orientated solutions and our goal is to ensure their physical reproducibility.

Reliability and quality form the guidelines which oblige us to consider all aspects of the use of measurement technology and to offer customers an individually tailored solution to their requirements. Optimum configuration of measuring systems, the right selection of components and their calibration – in addition to this we can offer you expert advice and our comprehensive service!

The dry, pollution-free testing of equipment, conservation of the environment and resources as well as quality assurance in accordance with DIN EN ISO 9001 – nowadays these are central themes in many applications.

When testing tasks are taken into account at the earliest possible point in product design then they can be undertaken more efficiently at a later stage. Comprehensive advice, all-round service, installation, appropriate software as well as system testing services round off what we can offer. Our calibration and testing services come with the operation of your measuring technology.

Our DAkkS accredited calibration laboratory has been certified in accordance with standard DIN EN ISO/IEC 17025 by the German Accreditation Office (DAkkS) and is accredited under registration number D-K-17589-01-00 in relation to the flow measured variables of mass and volume in gas and air flows. We can offer our accredited calibration services for flow measurement devices from all manufacturers.

Accordingly please contact us in good time about your project. We are happy to provide proof of our expertise in measurement and control technology!

From product development through to mass production

Measurement systems

Laminar Master Flow LMF: Universal flow measuring system for air and gas, optional combined with pressure or flow control, designed for continuous measurement or PLC operation, for the measurement of one or two measurement sections. Measurement and control range: 0.5 cm³/min up to 64 m³/min at -1 up to 10 bar.

Pressure Control System PCS: Pressure measurement and control system for calibration and endurance test of sensors with air and gases. Measurement and control range: from -1 up to 10 bar.

Leakage Measurement System LMS: Leakage testing system with air for pressure drop measurement using the differential pressure method. Measurement and control range: from -1 up to 10 bar.

Different non-standard systems for calibration purposes: Fitting measurement LMF-DIA, Gas dosage LMF-CFO, CVS calibration LMF-CVS, Laminar Flow Control LFC, Environmental data logging ESR and much more – please contact us for further information.

Sensors and actors

Evaluation and display electronics: Controller S320, panel-mounted built-in devices, plug-on displays.

Flow measuring elements: Laminar Flow Elements (LFE), nozzles, orifices, pitot tubes, gas meters, mass flow meters.

Pressure measurement products: Electronic sensors for absolute, differential and gauge pressure, digital manometers, handheld and built-in devices, analogue pressure gauges, column manometers, pressure calibrators.

Temperature and humidity meters: Electronic temperature sensors and humidity sensors, handheld and built-in measuring instruments.

Control valves and pressure regulators: Electronic and mechanical control valves for different flow and pressure control fields.

Accessories: In- and outlet sections as per DIN, sensor fitted blocks, valves and switching elements, fittings, maintenance and service equipment.

Calibration, software, training

Calibration services: For volume and mass flow of air and gases, pressure, temperature, humidity, current, voltage, frequency, time, mass, length etc. **with factory or DAkkS/DKD calibration certificate.**

S320 and PC software: Measurement value acquisition, processing and display for S320-based systems.

Training at our/at your premises: We bring your team up-to-date with the latest developments.

In collaboration with electronics, software and calibration we guarantee measurement based precision and reliability.

Flow
Pressure
Tightness

measure



control



calibrate



TÜV
CERT

