

WIKA calibration solutions

# Detecting changes and ensuring quality



# WIKA – Your partner in calibration technology

Our unique portfolio of products for all accuracy classes ranges from primary standards to simple hand-held instruments, all with different levels of automation.

Whether a single service instrument is required, quickly and without complication at the point of use, or whether a fully automated calibration system needs to be designed for the laboratory or production - we offer the appropriate solution for each requirement.

Through the combination of experience and the product range of renowned manufacturers, we can offer each customer the ideal solution for each measurement task.

A multitude of specific patents ensure unmatched performance characteristics with many of our calibration instruments. Our customers particularly appreciate the well-proven functionality, which results from WIKA not only being a manufacturer of calibration equipment, but that these instruments are also used in their own production and within their accredited laboratories.



The DH-Budenberg brand stands, like no other, for decades of experience in the manufacture of dead weight testers. DH-Budenberg develops and manufactures dead weight testers for industrial and laboratory applications with small measurement uncertainties. The product portfolio contains both portable and stationary instruments.



For over 40 years, Mensor has been setting new standards through innovative products for the automation of pressure testing tasks. The pressure controllers are suitable for both sensitive applications for use in laboratories and for the demanding requirements in manufacturing.



WIKAL stands for portable instruments for pressure and temperature, as well as current, voltage and resistance. Thanks to their robust design, they are ideally suited for calibration or testing tasks on-site.





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## Precise measurement and calibration instruments for demanding applications

Demanding process environments, such as in the chemical, petrochemical and pharmaceutical industries, require equipment that is absolutely reliable. Whether in the laboratory or on-site in the field - wherever you operate - you keep everything safely under control with the right test and measurement technology.

The selection of the right solution depends, to a great extent, on the special requirements that you face on a daily basis. This brochure provides you with an initial overview of the different application areas of our measurement and calibration products.

For further information about calibration solutions visit our website: [www.mensor.com](http://www.mensor.com)



Digital pressure gauges are increasingly replacing traditional pressure gauges in applications with higher requirements for accuracy

# Reliable on-site pressure measurement

## Flexible testing and documentation

Are you looking for a pressure measuring instrument for your testing or calibration tasks? Do you want to be as flexible as possible in order to react quickly to requirements? WIKA offers you the right solution from pneumatic or hydraulic pressure generation to waterproof measuring instruments with interchangeable pressure sensors.

Our product range covers digital pressure gauges, flexible hand-held measuring instruments (with interchangeable pressure sensors and a data logger for long-term monitoring) and instruments for portable pressure generation.

In several cases, the wireless data transfer and ATEX or CSA approval enables installation at demanding measuring points or those where they can only be read with difficulty.



Individually configurable test cases





Continuous pressure monitoring of tanks during transport and storage



Documenting on-site calibration of process transmitters,  
pressure gauges and pressure switches



Process calibrator with calibration assistant

# Precise on-site calibration

With pressure generation and calibration assistant

Measuring the pressure in a system or carrying out a complete calibration of pressure gauges or electrical pressure sensors is sometimes essential on-site. The problem is often that several individual test and auxiliary instruments are required, which can make the setup and process of the test difficult.

In order to reduce the expense of such applications, WIKA offers measuring instruments which incorporate all the required functions such as pressure and current/voltage supply, reference sensors and documentation of the test results in a single instrument. This enables a reliable, convenient, on-site calibration in the shortest time.

For use in particularly demanding environments, WIKA offers measuring instruments which are also ideally suited for explosion proof areas.



Pressure controllers with different features and accuracies



# Solutions for process automation

More efficiency in manufacturing and laboratory

Is the number of measuring instruments you need to test always increasing? Do you face capacity bottlenecks or do you need to make your test and measurement procedures more efficient? Efficiency, process safety and saving time are important reasons for automating existing processes.

Wika pressure controllers are high-performance electronic instruments that perform automatic, standardized verification and calibration of pressure gauges of all types. They are based on innovative, patented control technology, proven in continuous operation, and are an indispensable tool for the automation of testing tasks.

The innovative, intuitive operating concept, together with the flexibility of the instruments, is unique in this field. Try it for yourself. In our product portfolio, you will find the right solution for each application and every use.







Process optimization and efficiency increases through the use of pressure controllers





Manual and automatic  
dead weight testers

# Highest measurement accuracy in the laboratory

For maximum quality assurance

Low measurement uncertainties and high long-term stability are characteristics of instruments for the highest demands. Only one type of instrument can fulfill these for the measurand pressure - a dead weight tester/pressure balance.

WIKA offers you a variety of diverse instruments for industrial applications - for the testing of pressure sensors in development or metrological applications, and also for ensuring or extending national standards.

We offer the widest range of products for primary standards for the measurand pressure. Unique manufacturing know-how and particular selection of materials enables us to manufacture the most accurate of instruments. With these capabilities, combined with smart technology, we simplify the application of an otherwise complex instrument.

Fully automated dead weight  
testers and supplementary  
measuring instruments





Hand-helds with different features and accuracies

# Reliable on-site temperature measurement

Accurate testing and documentation throughout

Do you need a highly accurate instrument for random temperature measurements in incoming goods or manufacturing processes? Do you need to ensure the prescribed monitoring of temperatures across a complete production chain?

For each requirement, WIKA has the right measurement technology in their portfolio - robust instruments with several measuring inputs, an extremely high accuracy or for high temperature ranges. There are three probe types to choose from: resistance thermometers, thermocouples and thermistors. Furthermore, you will find a comprehensive offering of probe types, such as immersion probes, penetration probes, combination probes for the measurement of humidity and temperature or surface probes.

Thanks to their ATEX approval, some products can also be used in particularly demanding locations.





Optimal temperature monitoring for  
the best product quality



Quick and simple checking of safety-relevant temperature probes in test rigs



Intelligent combination of instruments for your success

# Automated heating/cooling and measurement

Unbroken monitoring in manufacturing and laboratory

The correct temperature source is crucial for an optimal calibration result. For the calibration of very short probes, a bath is ideal. For temperature probes with high temperatures, dry-well calibrators are best suited.

Reading thermocouples and resistance thermometers is no problem! WIKA offers a variety of read-out instruments and scanners, with which you can optimize a complete calibration process - from heating and cooling to registration of the measured values - for several test items simultaneously.

With an easy measuring assembly, an intuitive graphical user interface and accurate temperature measurement technology, our bridges make measurement easy.



Dry-well calibrators for various temperature ranges



Resistance thermometry bridges and standard reference resistors for highest accuracy

# High-precision laboratory calibration

## Accurately measurable up to 1 mK

A calibration accurate up to 1 mK always requires a smart combination of reference and read-out unit. By using internal or external standard resistors, resistance thermometry bridges measure resistance ratios with high accuracy, which are indicative of the temperature.

The high-performance resistance thermometry bridges from WIKA cover a wide range of single and multi-channel applications and are used extensively by national standards laboratories around the world.

Furthermore, we offer extremely precise digital thermometers for use in scientific applications and laboratories. With our fixed-point calibration methods, we can achieve the smallest measurement uncertainty through the calibration of reference thermometers.



Reference thermometers for high-precision measuring results







Highest precision with the measurement of temperature probes in laboratories



Complete test assembly for pressure, temperature and electrical measurands

## Individual system solutions

Consultation, design, implementation – all from one source

Precise calibration instruments are the starting point for resolving your test requirements. However, they only form one part of a high-performance calibration system. From our extensive product range, we can design a complete and individual solution for you which contains all the relevant components - with adaptability for test items, pressure and vacuum supply, components for pressure control and fine adjustment, and voltage supply and multimeters for the calibration of electrical test items.

Our particular strength lies in the project planning, development and building of complete, individual, application specific systems – from simple manual work stations to fully automated test systems in production lines.

## Pressure calibration service

WIKA and Mensor calibration laboratories

WIKA worldwide laboratories are accredited in accordance with ISO 17025. The Mensor laboratory in San Marcos, Texas is accredited to ISO 17025 by A2LA.

The calibration of your instruments are carried out in full consideration of the latest national and international standards.

We offer calibration services for all Mensor products. Calibration of other manufacturers' products can be done on an individual basis.

Our calibration department is known worldwide for high quality customer service and quick turnaround.



# For efficiency and confidence

Comprehensive accessories and user-friendly software

From individual components to complete turnkey kits, our accessories are the ideal complement to individual calibration instruments. Therefore, a complete solution is installed as quickly and easily as it is configured. Various packages complete the product program for calibration technology and can be used in many different applications.

**Free-of-charge demo download of the calibration software WIKI-Cal**

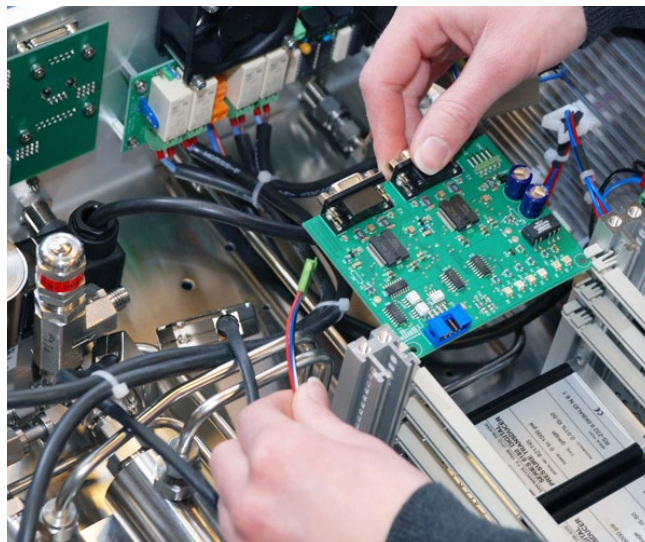


From the pressure generation to the complete calibration certificate - with WIKI you will get it all from one source.



# Support and repair services

WIKI and Mensor instrument repair and service centers



Instrument maintenance and repair services are provided for all Mensor's products as well as a wide range of other WIKI calibration technology products. Our teams of service technicians have over 75 years of combined instrument repair experience to better serve your needs.

Contact us - we are looking forward to hearing from you!

**Service team**  
Tel. 512-396-4200  
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An overview of Mensor's service/ calibration scope is at [http://www.mensor.com/pressure\\_calibration\\_service\\_en\\_um.WIKA](http://www.mensor.com/pressure_calibration_service_en_um.WIKA)

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