



WIKA calibration solutions

Detecting changes and ensuring quality



Smart in sensing

WIKA – Your partner in calibration technology

Our unique range 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.



The DH-Budenberg brand stands, like no other, for decades of experience in the manufacture of pressure balances. DH-Budenberg develops and manufactures pressure balances 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 test tasks. The pressure controllers are suitable for both sensitive applications for use in laboratories and for the demanding requirements in manufacturing.



WIKA 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 test tasks on-site.





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Precise measuring 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 - with the right test and measurement technology, you keep everything safely under control.

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.

Further information on our solutions around calibration is available on the internet at www.wika.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 test 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 through to waterproof measuring instruments with exchangeable pressure sensors.

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

Quickly measuring the pressure in the system or carrying out a complete calibration of pressure gauges or electrical pressure sensors - sometimes this is essential on-site. The problem: Often, several individual test and auxiliary instruments are required which can make the set-up 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 of times.

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



Pressure controllers with different features and accuracies



Solutions for process automation

More efficiency in manufacturing and laboratory

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

WIKA pressure controllers are high-performance electronic controllers that perform automatic, standardised 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 test 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 each use case.





Process optimisation 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 fulfil these for the measurand pressure - a dead-weight tester/pressure balance.

WIKA offers you diverse instrument variants 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-holds with different features and accuracies

Reliable on-site temperature measurement

Accurate testing and documentation throughout

Do you need a highly accurate measuring 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 indication accuracy or for particularly 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.

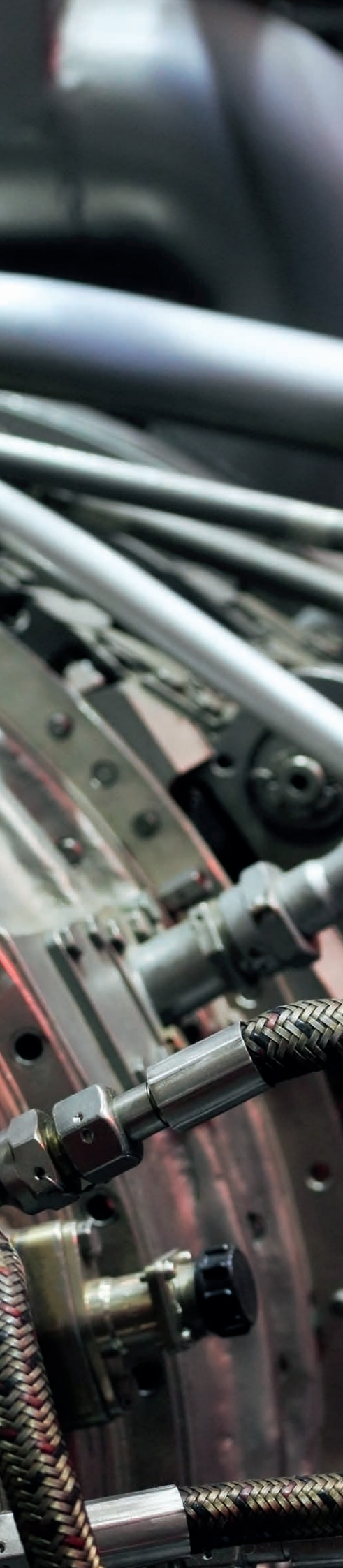




Optimal temperature monitoring for
the best product quality



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 from thermocouples and resistance thermometers - no problem! WIKA offers a variety of read-out instruments and scanners, with which you can optimise a complete calibration process - from the heating/cooling to the 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, among other things.

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, through the calibration of the reference thermometers we already achieve the smallest measurement uncertainty.



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, through to voltage supply and multimeters for the calibration of electrical test items.

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

Versatile support

The WIKA calibration & service centre

Our worldwide laboratories are accredited in accordance with ISO 17025. We perform our own research and actively contribute our experience in DKD/DakKS working groups and standards committees.

The calibration, maintenance and repair of your measuring instruments is carried out in full consideration of the latest national and international standards in our own WIKA calibration laboratory or on-site with you.

Should your measuring instrument not meet the required specifications, the deficiencies identified are immediately corrected. As an independent service provider, naturally, we offer our services for measuring instruments from all manufacturers.



For more efficiency and comfort

Comprehensive accessories and user-friendly software

From individual components to complete turnkey kits – Our accessories are the ideal complement to the individual calibration instruments. Thus a complete solution is installed as quickly and easily as it is configured. The various packages complete the product programme for calibration technology and can be used in many different applications.

Free-of-charge demo download of the calibration software WIKA-Cal



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



Your knowledge, up-to-date

WIKA training from our experts



Are you interested in a product, calibration or software training? As an individual or as a group; on-site at your company or at WIKA? Then speak to us. Together with you, our certified trainers can design precisely the course contents that you need for your requirements.

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

Service team
Tel. +49 9372 132-5049
CTServiceteam@wika.com



An overview of the open WIKA customer seminars can be found at www.wika.de/seminare

WIK A worldwide

Europe

Austria

WIK A Messgerätevertrieb
Ursula Wiegand GmbH & Co. KG
Tel. +43 1 8691631
info@wika.at / www.wika.at

Benelux

WIK A Benelux
Tel. +31 475 535500
info@wika.nl / www.wika.nl

Bulgaria

WIK A Bulgaria EOOD
Tel. +359 2 82138-10
info@wika.bg / www.wika.bg

Croatia

WIK A Croatia d.o.o.
Tel. +385 1 6531-034
info@wika.hr / www.wika.hr

Denmark

WIK A Danmark A/S
Tel. +45 4581 9600
info@wika.as / www.wika.as

Finland

WIK A Finland Oy
Tel. +358 9 682492-0
info@wika.fi / www.wika.fi

France

WIK A Instruments s.a.r.l.
Tel. +33 1 787049-46
info@wika.fr / www.wika.fr

Germany

WIK A Alexander Wiegand SE & Co. KG
Tel. +49 9372 132-0
info@wika.de / www.wika.de

Italy

WIK A Italia S.r.l. & C. S.a.s.
Tel. +39 02 93861-1
info@wika.it / www.wika.it

Poland

WIK A Polska spółka z ograniczoną
odpowiedzialnością sp. k.
Tel. +48 54 230110-0
info@wikapolska.pl
www.wikapolska.pl

Bildquellen:
© adobestock.com
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North America

Canada

WIK A Instruments Ltd.
Tel. +1 780 4637035
info@wika.ca / www.wika.ca

USA

WIK A Instrument, LP
Tel. +1 770 5138200
info@wika.com / www.wika.us

Gayesco-WIK A USA, LP

Tel. +1 512 3964200
info@wikhouston.com
www.wika.us

Mensor Corporation

Tel. +1 512 3964200
sales@mensor.com
www.mensor.com

Latin America

Argentina

WIK A Argentina S.A.
Tel. +54 11 5442 0000
ventas@wika.com.ar
www.wika.com.ar

Brazil

WIK A do Brasil Ind. e Com. Ltda.
Tel. +55 15 3459-9700
vendas@wika.com.br
www.wika.com.br

Chile

WIK A Chile S.p.A.
Tel. +56 9 4279 0308
info@wika.cl / www.wika.cl

Colombia

Instrumentos WIK A Colombia S.A.S.
Tel. +57 601 7021347
info@wika.co / www.wika.co

Mexico

Instrumentos WIK A Mexico S.A. de C.V.
Tel. +52 55 50205300
ventas@wika.com / www.wika.mx

Asia

China

WIK A Instrumentation Suzhou Co., Ltd.
Tel. +86 512 6878 8000
info@wika.cn / www.wika.com.cn

India

WIK A Instruments India Pvt. Ltd.
Tel. +1800-123-101010
info@wika.co.in / www.wika.com.in

Japan

WIK A Japan K. K.
Tel. +81 3 5439-6673
info@wika.co.jp / www.wika.co.jp

Kazakhstan

TOO WIK A Kazakhstan
Tel. +7 727 225 9444
info@wika.kz / www.wika.kz

Korea

WIK A Korea Ltd.
Tel. +82 2 869-0505
info@wika.co.kr / www.wika.co.kr

Malaysia

WIK A Instrumentation (M) Sdn. Bhd.
Tel. +60 3 5590 6666
info@wika.my / www.wika.my

Philippines

WIK A Instruments Philippines Inc.
Tel. +63 2 234-1270
info@wika.ph / www.wika.ph

Singapore

WIK A Instrumentation Pte. Ltd.
Tel. +65 6844 5506
info@wika.sg / www.wika.sg

Taiwan

WIK A Instrumentation Taiwan Ltd.
Tel. +886 3 420 6052
info@wika.tw / www.wika.tw

Thailand

WIK A Instrumentation Corporation
(Thailand) Co., Ltd.
Tel. +66 2 326 6876
info@wika.co.th / www.wika.co.th

Uzbekistan

WIK A Instrumentation FE LLC
Tel. +998 71 205 84 30
info@wika.uz / www.wika.uz

Africa/Middle East

Botswana

WIK A Instruments Botswana (Pty.) Ltd.
Tel. +267 3110013
info@wika.co.bw / wika.co.bw

Egypt

WIK A Near East Ltd.
Tel. +20 2 240 13130
info@wika.com.eg / www.wika.com.eg

Namibia

WIK A Instruments Namibia Pty Ltd.
Tel. +26 4 61238811
info@wika.com.na / www.wika.com.na

Nigeria

WIK A WEST AFRICA LIMITED
Tel. +234 17130019
info@wika.com.ng / www.wika.ng

Saudi Arabia

WIK A Saudi Arabia LLC
Tel. +966 53 555 0874
info@wika.sa / www.wika.sa

South Africa

WIK A Instruments Pty. Ltd.
Tel. +27 11 62100-00
sales@wika.co.za / www.wika.co.za

United Arab Emirates

WIK A Middle East FZE
Tel. +971 4 883-9090
info@wika.ae / www.wika.ae

Australia

Australia

WIK A Australia Pty. Ltd.
Tel. +61 2 88455222
sales@wika.com.au / www.wika.com.au

New Zealand

WIK A Instruments Limited
Tel. +64 9 8479020
info@wika.co.nz / www.wika.co.nz

WIK A Alexander Wiegand SE & Co. KG
Alexander-Wiegand-Straße 30 | 63911 Klingenberg | Germany
Tel. +49 9372 132-0 | info@wika.de | www.wika.de

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information here!



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www.wika.com