



Customised measurement solutions and services

Chemical industry & Petrochemical industry



Smart in sensing



Alexander Wiegand,
Chairman and CEO, WIKA

About us

As a family-run business acting globally, with over 10,200 highly qualified employees, the WIKA group of companies is a worldwide leader in pressure and temperature measurement. The company also sets the standard in the measurement of level, force and flow, and in calibration technology.

Founded in 1946, WIKA is today a strong and reliable partner for all the requirements of industrial measurement technology, thanks to a broad portfolio of high-precision instruments and comprehensive services.

With manufacturing locations around the globe, WIKA ensures flexibility and the highest delivery performance. Every year, over 50 million quality products, both standard and customer-specific solutions, are delivered in batches of 1 to over 10,000 units.

With numerous wholly owned subsidiaries and partners, WIKA competently and reliably supports its customers worldwide. Our experienced engineers and sales experts are your competent and dependable contacts locally.

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Customised solutions for your applications

The numerous and diverse applications in the chemical and petrochemical industry place the most varied demands on measurement technology. Whether electronic or mechanical solutions, hazardous environments or general areas, aggressive, volatile or viscous media – our customisable measuring instruments for temperature, pressure, flow and level are in use in every conceivable environment and guarantee the

highest process reliability and plant availability. We advise you on development, integration and operation with reliable products, systems and services. Our goal: to make your applications particularly efficient, sustainable and permanently reliable. Anytime. Worldwide.



Step-by-step, moving forward together with a reliable partner

The perfect interface between process and distributed control system

Process plants in the petrochemical and chemical industry are becoming increasingly diverse and complex. At the same time, the demands on their safety, economic efficiency and, especially, sustainability are increasing. It is good to have a reliable partner for the design of new plants and the optimisation of existing ones, with whom the necessary process data can be determined easily and safely. With solutions for pressure, temperature, level and flow from one source. Including accessories and services.

Sustainable together

Reducing resource consumption

With products that permanently reduce energy consumption and with services and optimisations that make savings potential visible and realisable.

Raising process efficiency

Continuously, reliably and efficiently collect critical parameters with sensor solutions that are precisely tailored to the application.

Increasing productivity

With a wide range of analogue and digital continuous data that identifies problems before faults and unplanned downtime occur.

Reducing production costs

With reliable measuring systems that are permanently in use and have minimal maintenance costs.

Benefit from our many years of experience

Highest safety, available worldwide

The safety of people, process and the environment has the highest priority. Therefore, many of our products are suitable for PL and SIL applications and ensure functional safety, even in critical applications. In addition, WIKA offers numerous product variants for hazardous areas, with regional and international approvals such as ATEX, IECEx, CSA, FM or UKEX. In some cases, the configuration options allow more than one million variants per product – and thus customised measuring instruments without the need for special orders. Individual engineered solutions are also easily feasible. Production sites all over the world minimise logistical efforts and transport times. This makes it easier to choose the perfect solutions for initial equipment, retrofitting and spare parts procurement.



High-quality materials and processes for maximum operational safety

Aggressive media can severely damage sensors. Thanks to high-quality materials and joining processes, we have the right solution for every imaginable medium. Materials in accordance with EN ISO 15156-3 / NACE MR 0175 and NACE MR 0103 are available for the petrochemical industry. Whether made from standard 316L stainless steel or from nickel, titanium, tantalum, or coated with PTFE film, PFA, gold or Wikaramic® – the choice is yours. In special applications with temperatures of up to 1,700 °C [3092 °F], gas-tight sapphire glass protects thermocouples and extends the service life by a factor of ungefähr 3. Various welding and soldering processes ensure connection points with maximum safety, which are tested with regard to their leak tightness using state-of-the-art procedures such as the helium leak test.



Constantly reliable – even under extreme conditions

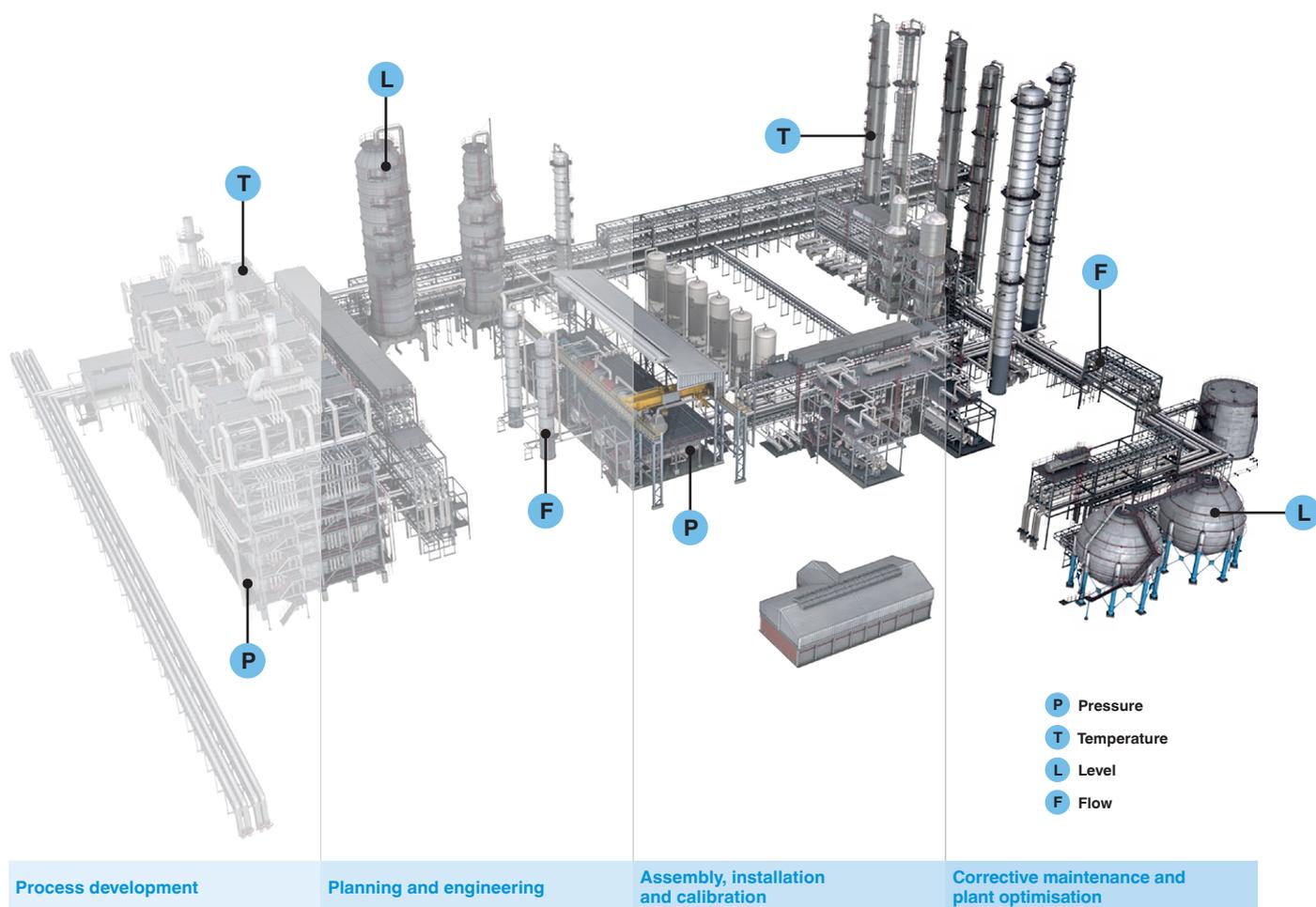
Extreme heat or cold with large jumps in temperature, high pressures, aggressive chemicals, shocks and vibration – in everyday industrial life, conditions await that mean stress for the sensor. Quality and reliability are realised through a well thought-out robust instrument design as well as strict quality assurance. The result: maximum operational reliability even at temperatures as low as -70 °C [-94 °F] ambient temperature. For particularly critical applications, we therefore also offer redundant systems that are equipped with various measuring methods and are thus secure data suppliers.



Safe plants from A to Z

Partner for life

Whether setting up a new plant or upgrading existing plant, every project has its own technical particularities. For this reason, WIKA offers a wide range of services for the measuring technology itself, from system planning to accessories for tailored installation. This enables an individually optimised concept, uncomplicated installation and worry-free operation with maximum availability. For plant concepts that are interconnected and highly efficient, reduce the CO₂ footprint and keep overall costs as low as possible.



Process development

Careful design is the key to a sustainable, efficient and safe process plant and forms the basis for efficient and economical operation. The plant design depends, to a large extent, on its layout. In our testing facility in Houston, for example, we carry out regular test temperature measurements under real process-like conditions and can thus provide you with professional support in the design and calculation of new process plants.



To ensure that all components mesh smoothly and are optimally integrated, we provide you with advice right from the start and also take care of the maintenance operations of the measuring instruments on-site – for safe and efficient plants with maximum reliability.



Planning and engineering

Our EPC team, in over 44 countries, manages large international projects, which can also include several thousand measuring points. For this purpose, we provide the basic design engineering in advance as part of the front-end engineering design. In this way, we calculate optimal diaphragm seal and flow systems, thermowell designs and technical solutions for your specific system requirements. Thanks to decentralised production, the sensors are also available at short notice – no matter where your plant will be located in the future.



Assembly, installation and calibration

Get technical support for the realisation of your plant elements. Prior to installation, we offer customers the opportunity to carry out pre-delivery acceptance tests on products. Our service team then installs the corresponding solutions on-site and also takes care of the initial setup and calibration. This means you can hit the ground running and receive reliable measured values right from the start.



Corrective maintenance and plant optimisation

The regular inspection of systems and calibration of equipment is just as much a part of our service as continuous optimisation. Thanks to our international organisation, experienced service personnel and suitable original spare parts can reach you quickly and, thus, minimise unplanned downtime – no matter where your plant is located. When it comes to corrective maintenance, we offer, among other things, functional testing and cleaning as well as the replacement of wear parts and the retrofitting of measuring instruments. You can also have your measuring instruments tested on-site to save time – the portable calibration instruments from our DAkkS-accredited calibration service make this possible. Of course, we also help with calibrations and repairs of measuring instruments from other manufacturers.

Ready for the future of sustainable digitalisation

Interconnected sensors and systems, conceived in their entirety, are able to realise particularly resource-efficient, and thus climate-friendly as well as cost-effective, process plants. This requires intelligent solutions for measured variables such as pressure, temperature or level, which regularly send reliable data to the system, even from widely distributed plant areas.



Complete automated solutions – from process to measurement to control

In order to reliably automate processes and to control them in a predictive manner, continuous measured data is needed along the entire process chain. When pressure, temperature, level and flow data intertwine thanks to coordinated interfaces, well thought-out complete solutions are created.

WIKA offers modern sensor technology for all important measured variables from a single source. This reduces the effort required during operation and ensures maximum efficiency. The integration of particularly compact measuring systems also reduces the use of materials, minimises heat losses at the measuring location and thus saves energy.



Emissions reduction and increased plant availability through networking

Optimised processes are becoming increasingly important in the context of climate-friendly production. Interconnected IIoT systems are the basis for efficient plant monitoring and optimisation. With the WIKA IIoT cloud solution and tested sensor technology*, comprehensive measured data can be bundled and used intelligently via condition monitoring. Instrument data can thus be evaluated via a digital twin and specific prognosis and prediction algorithms.

This enables, for example, optimised temperature management. The result: energy consumption, use of resources and emissions are reduced. Efficient radio solutions, such as LoRa®, mioty or LTE/5G networks, ensure effortless connection of remote measuring locations. IIoT solutions from WIKA send measured values in defined time intervals. On exceeding fixed limit values, a system alarm is triggered.

* Availability depending on local frequency regulations and certifications.

Driving decarbonisation forward – with WIKA

The most important step towards climate-friendly industry is to avoid emissions. When planning process plants, we therefore focus on systems and solutions that are as energy-efficient as possible. Intelligent sensors and continuous condition monitoring optimise running processes and ensure low-emission operation.

With state-of-the-art joining technology and reliable materials, we can – as with our fully welded diaphragms – also minimise fugitive emissions, which can be caused by leaks. In addition, with specific sensor technology solutions, we promote the production and use of green hydrogen as a bridging technology. These solutions are particularly resistant and reliable, as they do not become brittle in contact with hydrogen. So we say: Clear the way for sustainable industry.



Temperature to the point

Whether in reactors, pipelines or on surfaces – precise temperature measurement forms the basis of efficient and energy-saving process control. Depending on the application and design, the temperature can be measured either directly in the medium or as a contact temperature. WIKA offers a wide range of products from a single source that are certified for the chemical and petrochemical industry.

Surface temperatures on fired tube coils and furnace walls

TubeSkin thermocouples are perfect for applications where exact contact temperatures are required to prevent damage to plant elements. V-PAD® is designed for fast response times and is fully welded to the surface – also to avoid air layers that could falsify the data. XTRACTO-PAD® enables easy replacement of thermocouples and TEFRACTO-PAD®, through optimised heat shield and mineral-insulated cable, enables temperature measurement under extreme heat and demanding conditions.



Fast-response, invasive temperature measurements with additional safety barriers

In many cases, measuring instruments in contact with media must respond quickly and withstand high peaks of both temperature and pressure. For example, when temperature increases in ethylene oxide plants must be detected in fractions of a second for explosion protection, when pressure peaks occur in reactors for LDPE production or when extreme temperature values are reached due to gasification processes. WIKA has specific, field-proven solutions for such applications with the highest safety requirements, from the measuring tip to the transmitter in SIL version, developed in accordance with IEC 61508.



Robust thermowells for critical process conditions

Thermowells and also protection tubes ensure the safe placement of thermocouples, resistance thermometers and mechanical thermometers at the desired measuring location in the process and enable temperature measurements in the middle of the media flow – even under difficult flow conditions.

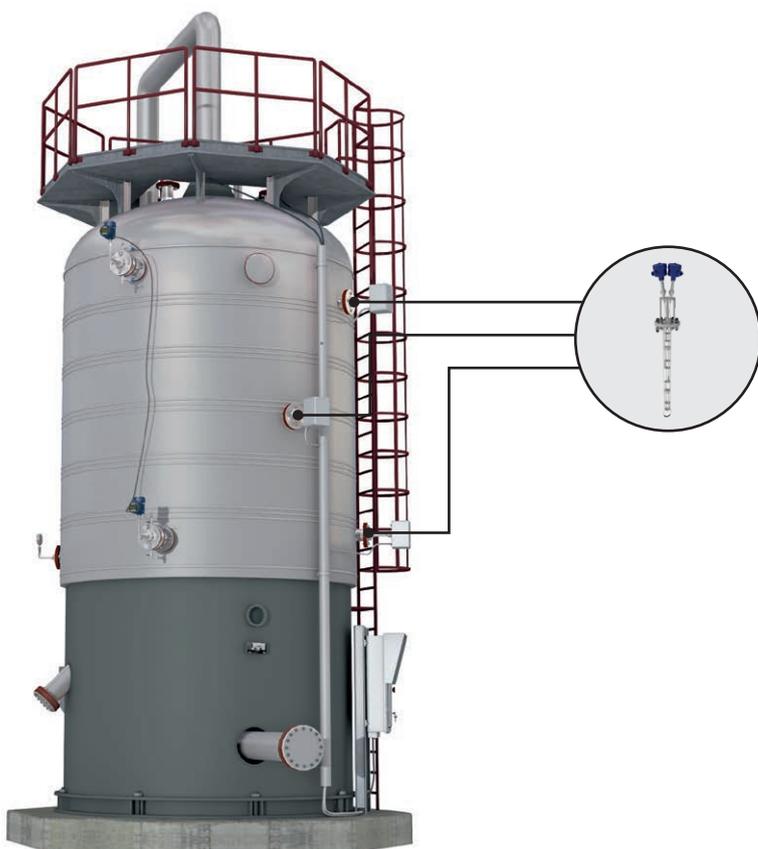
Helical strakes on the thermowell, so-called ScrutonWell® for example, reduce the amplitude of oscillation caused by the Kármán Vortex street by more than 90 %.

This makes it possible to install the defined thermowell dimension while maintaining a high level of safety in critical applications.



Multipoint measurement in reactors

Whether 4 or 96 measuring points: Large-area temperature monitoring of reactors can be easily realised thanks to multipoint measurement. With such measuring systems, you achieve comprehensive horizontal and vertical coverage of the reactor area, with high redundancy at the same time. This provides the system with a complete temperature profile in real time. Irregularities in the temperature distribution or hotspots can thus be immediately identified and faulty processes can be remedied quickly.



At operating temperature: the WIKA service team

Save time and money with a well-coordinated and experienced team. Our qualified service staff will support you with the installation, maintenance and recurring calibrations of measuring instruments. This also includes the planning and integration of high-quality multipoint measuring systems in reactors.

Do you want individual planning?

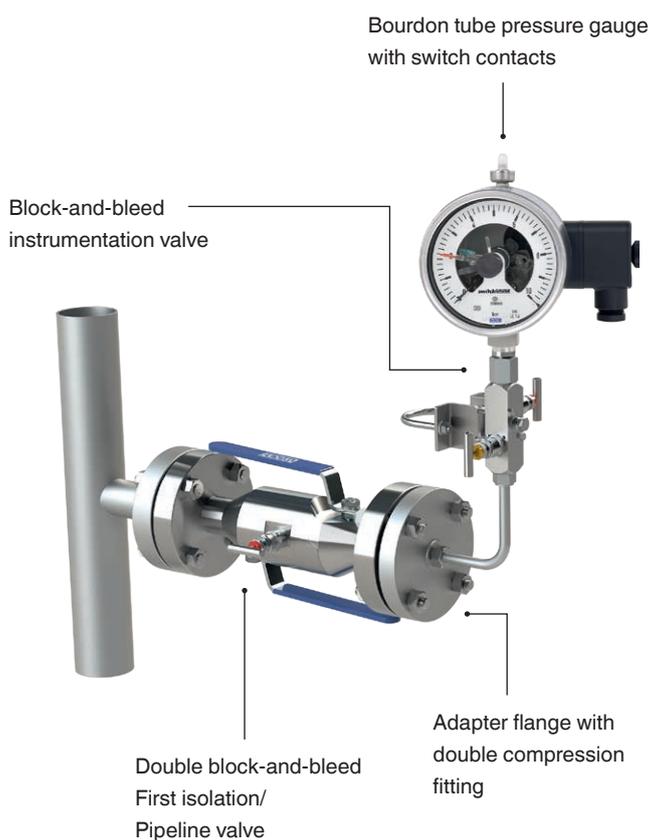
In our design centres and testing facilities, we test possible measurement solutions under real conditions and create the optimum concept for your system.

Safe operation even under critical pressure conditions

Since pressure is a central process parameter, precise and fail-safe integration is of great importance. Whether in viscous, abrasive, hot, aggressive or crystallising media – reliably record pressures with our broad, field-proven and almost limitlessly configurable range of pressure gauges, pressure transmitters, pressure switches and diaphragm seals as well as corresponding accessories – and thus defy the challenges of your applications.

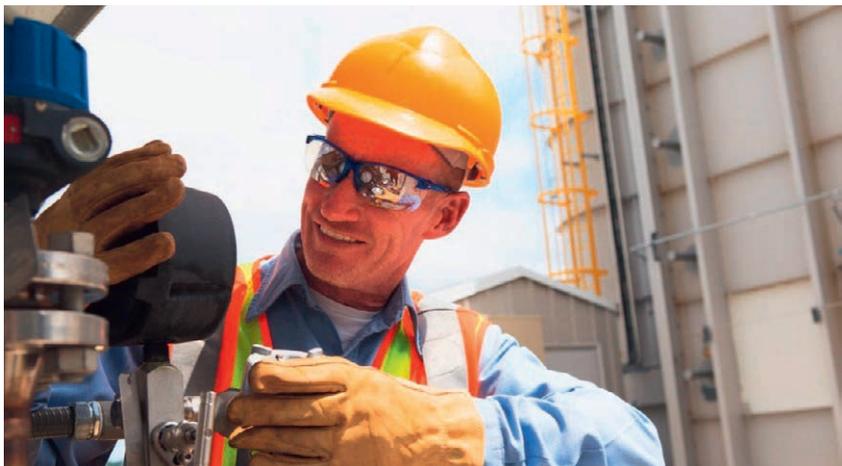
Variety across the entire pressure spectrum

WIKA offers operationally safe solutions for high-pressure applications from 2,500 ... 15,000 bar [40.000 ... 217.000 psi]. Likewise, vacuum and absolute pressure applications down to -1 bar (0 bar abs.) [0 psi abs.] can be realised with pressure transmitters and differential pressure transmitters. Thanks to accuracies of up to 0.01 %, highly sensitive sensors enable reliable data acquisition.



Perfect connection to the system

If the coordinated measuring instruments, connecting elements and process interfaces are not available during assembly, entire plant sections are prevented from being put into operation. For an absolutely safe integration in specific installation situations, WIKA offers adapter flanges, thread adapters, block-and-bleed valves, compression fittings and flushing rings. They ensure a trouble-free pressure measurement. Emission protection in accordance with TA-Luft (VDI 2440) and ISO 15848-1 is applied across the board. The wide variety of displays, output signals and transmission standards also enables customised, application-specific configuration. Intelligent digital solutions help optimise processes and energy consumption.



Harsh conditions? No problem.

In order to meet the requirements of aggressive media and to create a reliable basis for future technologies such as hydrogen, our measuring instruments and valves are available as versions with specific, resistant alloys such as Hastelloy and Monel. Diaphragms made of tantalum, coatings made of PFA, PTFE or gold as well as the use of resistant ceramic fronts are also possible.



Reliable data in heat and cold

With arctic ambient temperatures down to $-70\text{ }^{\circ}\text{C}$ [$-94\text{ }^{\circ}\text{F}$], the POLARgauge® and POLARvalve series offer maximum process safety. On the other side of the process temperature spectrum, some diaphragm seals and pressure measuring systems are designed for extreme conditions up to $450\text{ }^{\circ}\text{C}$ [$842\text{ }^{\circ}\text{F}$].

Intelligent diaphragm monitoring for diaphragm seals

Aggressive media and extreme conditions affect even the most resistant diaphragms. To prevent damage and production losses due to cracks and perforations, WIKA has developed a patented digital diaphragm monitoring system for maximum process reliability. The sensors* have two diaphragms, one above the other. If the diaphragm in contact with the medium is damaged, the sensor sounds an alarm. The second diaphragm protects the process and enables continued pressure measurement until maintenance.

* Availability depending on local frequency regulations and certifications



For pressure situations: the WIKA service team

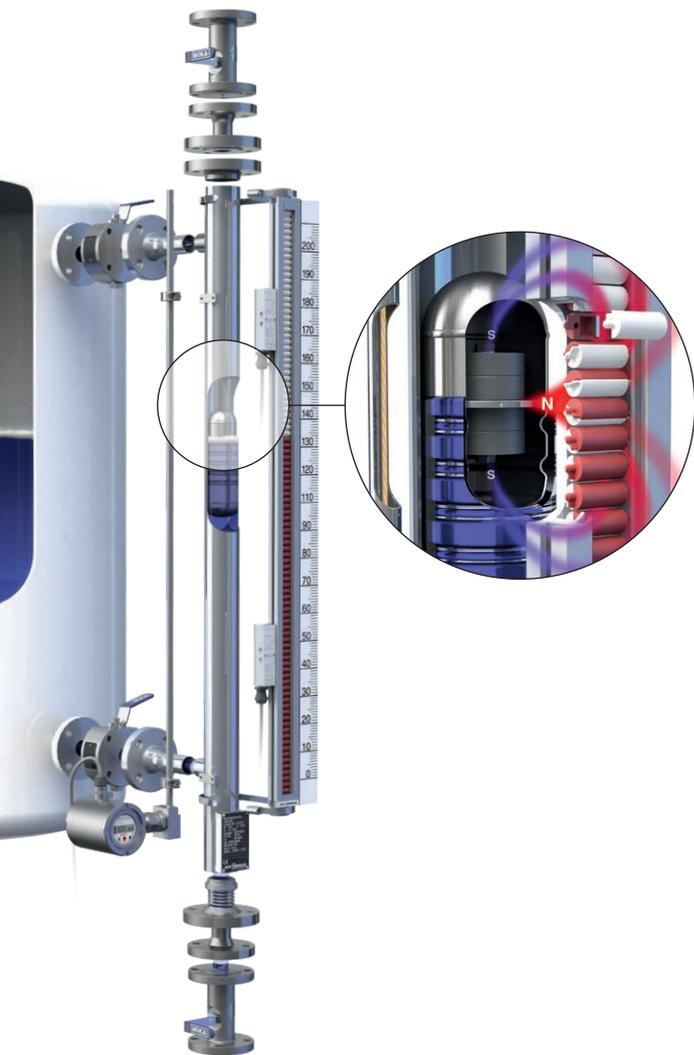
With our in-field calibration service, you can save a lot of time without compromising on quality. Special equipment and an experienced service team make uncomplicated, on-site calibration possible.

Planning and process safety from the start

In WIKA's own design centres and testing facilities, we develop and design possible pressure measuring systems and test them in active installation situations and under real conditions. For the perfect fit from day 1.

Always on the right level

In some applications in the petrochemical industry, level measurement is sufficient via simple level indicators, others prefer to use the comprehensive solution with analogue output and additional level switching signal. Whether digital transmitters or easy-to-read visual indicators – together we will find the best solutions for your process requirements.

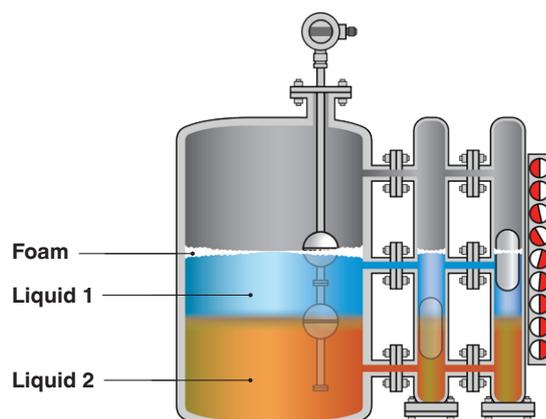


100 % tailor-made

Solutions from WIKA ensure maximum ease-of-integration with process connections that match your process exactly – even in demanding installation situations or with critical media. This also includes shut-off, vent and drain valves as well as adapter pieces that can be tailored to customer-specific conditions on-site. Our solutions also cover special applications. For example, with thermal insulation for processes in which no energy must be lost, or with dual-chamber solutions for boiling liquid gases.

The right solution for each application

Level indicators provide continuous local indication of the level without any power supply. Interface measurements for accurate information on multiphase liquids in separators. Solutions with electronic or digital output signals enable systematic recording and monitoring. Their data can also be used to control processes automatically and to avoid critical levels reliably. Temperatures up to 450 °C and pressure ranges up to 600 bar are no longer a problem. Different materials and coating options – including stainless steels, titanium, Monel, Hastelloy as well as various plastics – expand the range of applications to almost all aggressive media.



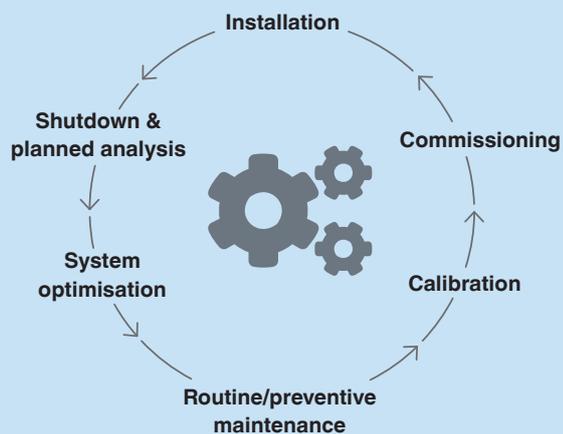
Redundant systems

In critical applications, where the risk of incorrectly detected levels or measurement malfunctions must be kept at zero, redundant systems with two or three different measuring elements are suitable, which can be based on different technologies as required. For example, double level measurement systems in bypass chambers with visual level indicator as well as digital reed level transmitter. In this way, the current levels can be read both digitally in the system and visually on the vessel.



The best: our on-site service

From installation and commissioning to routine maintenance and system optimisation – as an experienced service partner, we implement safe systems and look after them with efficient services – for minimum downtimes and optimised operating costs.



Everything in flow

Accurate and low pressure-loss flow measurement is indispensable if processes and processing methods are to run smoothly, save energy and thus be economical. Digital and efficient concepts are in demand, especially in view of the necessary emissions reduction within the framework of the climate targets set worldwide. For the most convenient integration of measurement technology, we supply ready-assembled measuring arrangements, consisting of flow element and measurement solution, which are adapted to the requirements on-site.

Complete solutions for minimum maintenance effort

Well thought-out complete solutions – for example, as a meter run including upstream and downstream pipe – reduce maintenance costs and enable efficient systems that fit organically into your process. Professionally installed and tested measuring systems significantly reduce the number of possible leakages. They tend to wear less, which extends the service life and minimises maintenance costs and the associated spare parts services.

Initial equipment based on individual needs

Since flow measurement inevitably leads to a pressure drop in the process, this must be taken into account and compensated for. Energy consumption and operating costs increase. When planning new systems, flow measurement can be designed with the media feed in such a way that additional costs for pressure maintenance remain minimal. In the oil, gas and chemical industries, for example, our HHR ProPak™ flowmeter sets new standards. It has the lowest permanent pressure loss of all bottleneck systems and guarantees optimum pressure recovery thanks to an innovative diffuser section. And for those who need an extra level of safety, through highly reliable systems with multiple measurements, redundancy can be realised without high additional costs.





**Durable. Energy-efficient.
Space-saving.**

Efficient differential pressure flow meters help to keep the additional pumping power required, due to pressure drops, as low as possible. Venturi tubes and HHR flow tubes provide the highest level of traceable accuracy with minimal pressure loss. For applications with limited mounting space, solutions exist that can be used without an upstream and downstream section, and even after two 90° pipe bends – without compromising the quality of the measurement. Measuring erosive slurries as well as aggressive and highly viscous liquids is effortless thanks to robust orifice plate, segmental orifice plate and eccentric orifice plate solutions.



**Maintenance and calibration ex-works
from the experts**

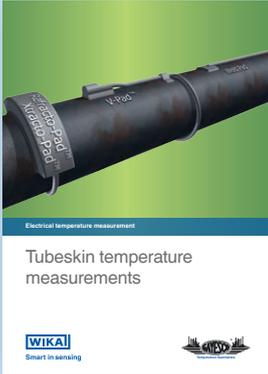
If routine or condition-based maintenance of your measuring systems is due, our experienced team will support you quickly and without complications.

Do you want individual planning?

We will gladly take over numerous planning and development steps for you in the realisation of meter runs. We design, build and test complete solutions to the desired specification. Our qualified service team then installs these in the plant professionally and ready for operation – calibration included.

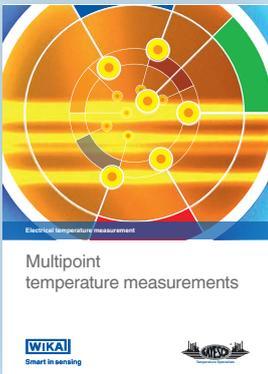
Find the right solutions with us

Temperature



Tubeskin temperature measurements

Accuracy, reliability and ease of installation are the hallmarks of our tubeskin thermocouples. Thanks to their high sensitivity, overheating can be detected at an early stage. They allow for accurate adjustment of furnace firing and thus increase the service life of the tubes.



Multipoint temperature measurement

In the petrochemical industry, there is an increasing need to determine temperature profiles accurately in demanding applications. Depending on the application, there are various designs of modern multipoints to choose from. We support you from the specification and design of multipoint thermometers, through their production to installation and commissioning.



Thermowells in ScrutonWell® design

The helical strakes, arranged around the thermowell stem, break up the flow and thus impede the formation of a clearly defined Kármán vortex street. Find here the advantages like high security, increased profitability and easy maintenance. The ScrutonWell® design can be used for all kind of solid machined thermowells with flange connection, in Vanstone design or for weld-in or screwed process connection.



Pressure



Instrumentation valves and mounting accessories

Our wide range of valves and instrument hook-ups are used for gaseous, liquid, aggressive, highly viscous or crystallising media, also in aggressive environments. They are suitable for demanding applications in diverse industries.



Level



Tailor-made level solutions

Whether building a new plant on a "greenfield" site or upgrading existing production units ("brownfield") – each application brings its own individual requirements in terms of connections, accessibility and fugitive emission limits. A fully process-oriented approach to development and manufacturing enables us to meet your specifications precisely.



Service



Calibration and service centre

Only when you know that your instruments are working properly you can trust the reliability of their measurements. This assurance is as important for your business as it is for your customers.



Visit our YouTube channel for videos about our service offers, e.g. Field service for temperature applications

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You can find further
information here!



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