



Pressure | Temperature | Level | Flow

# Your partner in the EPC Contractor Business



Smart in sensing



Alexander Wiegand,  
Chairman and CEO, WIKA

## About us

As a family-run business acting globally, with 10,000 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.

# Your competent partner in the contractor business

WIKA has been active in the contractor business for more than 40 years. Together with international partners we realise large projects all over the world; being more than a reliable supplier of high-quality measuring instruments. As a competent partner we develop - together with you - products and solutions made to custom-fit your requirements.

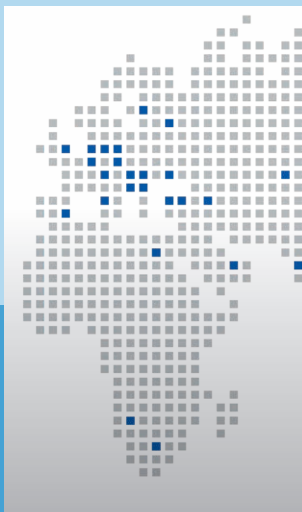
Thanks to our global presence, you will find WIKA in all well-known supplier lists that are also used by the leading engineering and contractor companies.

In all WIKA subsidiaries, experienced engineers supervise their respective projects and create precise offers and/or documentation, handling your orders in accordance with your specifications.

Numerous sales staff in our subsidiaries can offer you acceptance tests and special packaging (such as specially designed transport cases with the corresponding labelling) as well as installation support for the products ordered.

WIKA's high level of performance is based essentially on three factors: A wide and innovative product range, comprehensive and competent service and a reliable global presence. We are happy to assist in your success. You can find out more about what we can offer you on the following pages.

## Global presence



## Service in every detail



## Product portfolio



## Project management



# Front End Engineering Design (FEED)

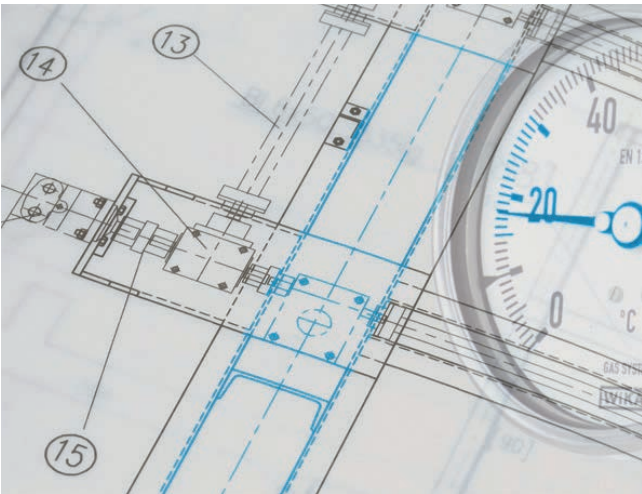


Front end engineering design means basic engineering which is conducted after completion of conceptual design or feasibility study.

At this stage, before the start of EPC (engineering, procurement and construction), various studies take place to figure out technical issues and estimate rough investment costs.

This work is normally contracted to EPC contractors as an optional contract or through a bidding process.

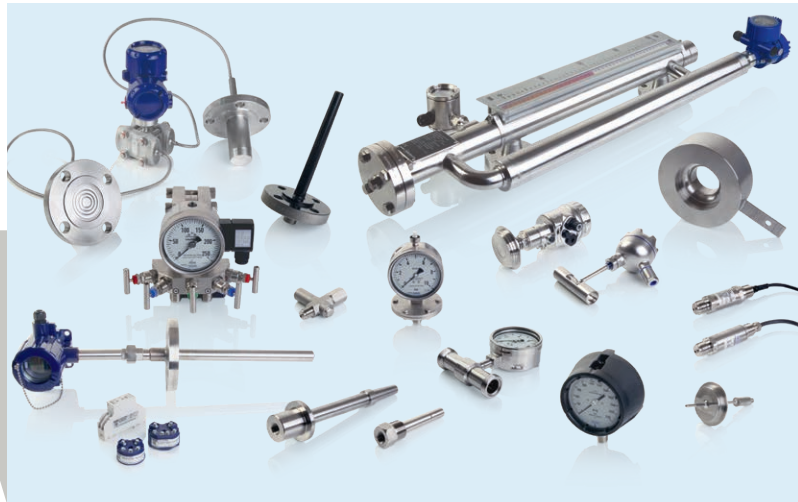
The product of this activity is called “FEED Design or FEED Package” which amounts up to many files and will be the basis of bidding for the EPC contract.



At these very important, early stages, WIKA engages with the clients' intentions and offers design criteria, philosophies and measurement solutions in pressure, temperature, level and flow measurement to ensure the outline principles are achieved.

With decades of experience, technical know-how and project expertise, WIKA has provided cost-effective solutions to all the major blue-chip engineering companies around the world.

WIKA's high level of performance is based essentially on three factors: A wide and innovative product range, comprehensive and competent service and reliable global presence.



# Global project teams – in your vicinity



WIKA maintains subsidiaries in over 43 countries on all continents. These include state-of-the-art production facilities in all central markets, maintenance facilities, installation equipment and teams for additional services. Wherever you need us, WIKA offers you the necessary know-how for your country-specific requirements.

Whether you need intensive consultation in the basic or detail engineering, technical service, acceptance tests or support for product installation, we are never far away and, thus, able to support the prompt and smooth realisation of your projects.



# WIKA supplies products for the most diverse sectors of industry

Whether a component manufacturer/package vendor or an industrial plant engineering company, whether national or international, there is always the right solution for your particular application in our product portfolio:

## Component manufacturer

- Generators
- Boilers
- Transformers
- Turbines
- Compressors
- Pumps
- Pipeline systems
- Exhaust gas systems

## Plant contractors

- Petrochemical industry (up- and downstream)
- Offshore industry
- Sanitary applications, pharmaceutical industry
- Chemical industry
- Power engineering
- Solar technology
- Water treatment
- Shipbuilding industry
- Basic materials (aluminium, cement, glass, steel...)



Petrochemical industry



Chemical industry



Water treatment



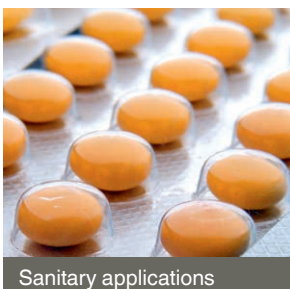
Offshore industry



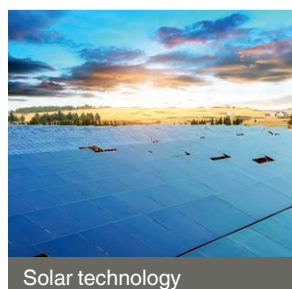
Power engineering



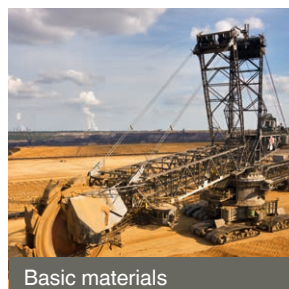
Shipbuilding industry



Sanitary applications



Solar technology



Basic materials

# Lasting impressions with reliable services



## Choose from our comprehensive set of services

### → Installation & Commissioning

WIKA's field installation experts go to the customers' sites to provide tailored solutions that result in a short downtime. We ensure process safety with our list of installations that include multipoint thermometers in reactors, thermocouples in furnaces and level measurement instrumentation.

### → Maintenance & Repair

You can count on WIKA to do repairs – from diaphragm seal systems up to highly accurate calibration instruments. We support you in optimising your operational processes. Benefit from our know-how for solutions that are tailored to your needs.

### → Analysis & Support

WIKA offers reliable consultation services, both analytical and technical, for a wide range of industries. Our qualified service technicians support in solving problems and ensure that your measuring instrument is back in working order in the shortest possible time.

### → Calibration

WIKA provides its calibration services on-site at your premises or in our laboratory, for WIKA as well as other instruments. Pressure, temperature, mass, electrical, force, dimensional, flow and torque are some of the other calibrations and adjustments that we provide on shortest delivery times.

### → Inspection & Testing

You can rely on WIKA for on-site verification and function testing that is non-invasive and non-destructive. Our expertise also includes in-situ verifications of multipoint thermometers.

**SERVICES**   
**EXCEEDING  
EXPECTATIONS**

# Versatility and flexibility

Both the breadth and depth of the product range offers you a large selection of measurement solutions. The WIKA programme is divided into a number of product lines and is thus suited to the widest range of applications.

In addition, many instruments can be combined with each other or can be extended, for example with diaphragm seals, capillaries or thermowells.

## Pressure measurement



### Electronic pressure measurement

WIKA offers a complete range of electronic pressure measuring instruments: pressure sensors, pressure switches, pressure transmitters and process transmitters for the measurement of gauge, absolute and differential pressure. Our pressure measuring instruments are available in the measuring ranges 0 ... 0.6 mbar to 0 ... 15,000 bar.

### Mechanical pressure measurement

Indicating pressure gauges for gauge, absolute and differential pressure with Bourdon tube, diaphragm or capsule pressure elements have been tested millions of times over. These instruments cover scale ranges from 0 ... 0.5 mbar to 0 ... 7,000 bar and indication accuracies of up to 0.1 %.

### Diaphragm seals

WIKA diaphragm seals, mounted with pressure gauges, pressure transducers, pressure transmitters etc., are recognised and valued internationally for the most difficult of measuring tasks. The measuring instruments can thus be used at extreme temperatures (-90 ... +400 °C) and with aggressive, corrosive, heterogeneous, abrasive, highly viscous or toxic media.

### Accessories

Our comprehensive accessory programme includes pressure gauge valves, stopcocks, syphons, adapters, and much more.





## Assemblies

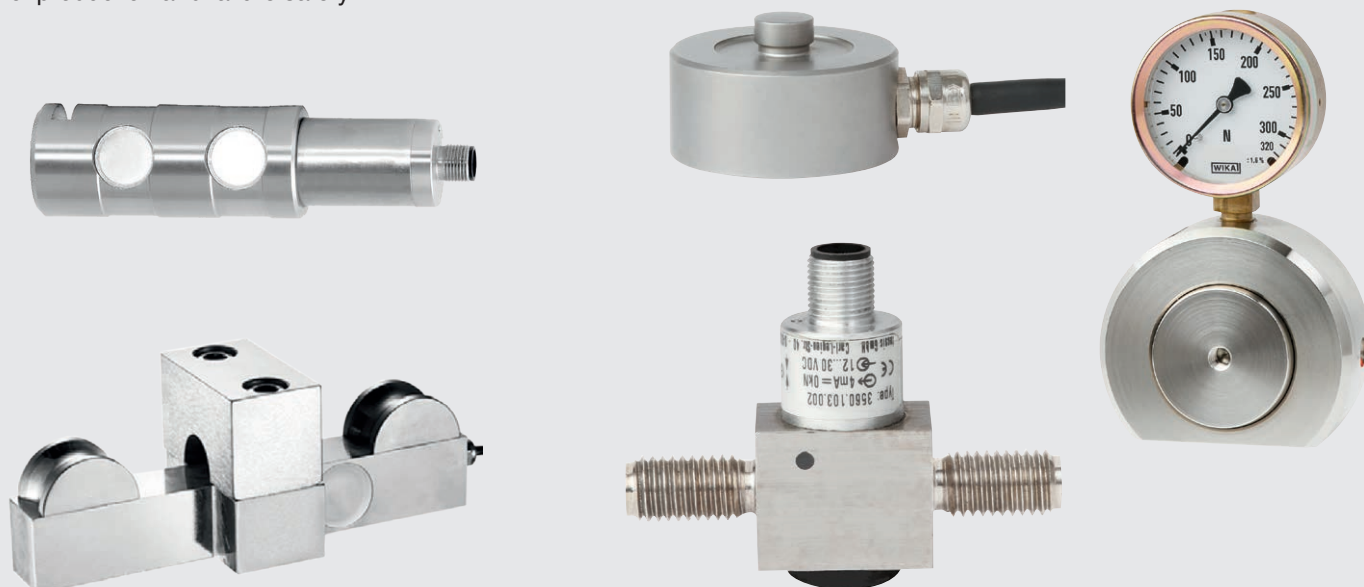
WIKA is a reliable supplier of valves and instrumentation with appropriate accessories.

Thanks to the ready-to-install instrument connections, the customer receives a complete, application-specific solution that is already tested and ready for use. This results in cost and time savings for our customers.



## Force measuring instruments

Force measuring instruments primarily serve to protect people, machinery and goods. Here, choose from three leading technologies: thin film, strain gauge and hydraulic force transducers. Our instruments ensure a high degree of production and failure safety.



# Temperature measurement



## Electrical temperature measurement

Our range of products includes thermocouples, resistance thermometers (also with on-site display), temperature switches as well as analogue and digital temperature transmitters for all industrial applications. Measuring ranges from -200 to +1,600 °C are covered.

## Mechanical temperature measurement

The mechanical temperature measuring instruments work on the bimetal, expansion or gas actuation principle and cover scale ranges from -200 ... +700 °C. All thermometers are suited for operation in a thermowell if necessary.

## Thermowells

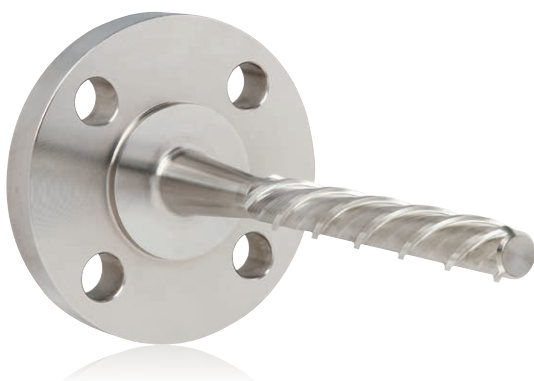
So that thermometers can work even under extreme process loads, we offer a wide range of thermowells. The thermowells can also be supplied in special materials such as Hastelloy or titanium, with tantalum linings or with E-CTFE/PFA coatings. As an engineering service, we offer thermowell calculations in accordance with ASME PTC 19.3 or Dittrich/Klotter.



## Thermowell in ScrutonWell® design

The helical strakes arranged around the thermowell stem of the ScrutonWell® design, break up the flow and thus impede the formation of a clearly defined Kármán vortex street. Through the reduced amplitudes of the diffused vortices, vibrational excitation of the thermowell is avoided.

- Cost saving aspects by standard installation
- High security for your application
- Increased profitability by higher flow rates



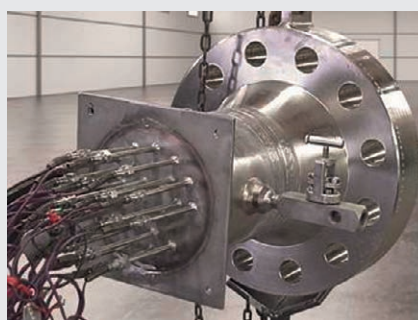


## Tubeskin temperature measurements



WIKA is the world leader in temperature measurement technology for furnace and reactor applications.

- Invented Radial Temperature Profiling in 1986
- In refineries since 1988; the first 240 points still in operation
- Over 60,000 points in service worldwide
- Installed in more than 1,500 reactors
- 90 % of new hydrocrackers worldwide
- 78 % of new hydrotreaters worldwide
- Accepted by all major licensors



### The product range covers

- RTD's & thermocouples
- Thermowells
- Tubeskin thermocouples
- Multipoint assemblies
- Pipewells & assemblies
- Reactor thermocouples
- Pilot light detection
- Quality and value

### Application areas

- Hydrocrackers
- Hydrotreaters
- FCCs
- Catalytic reformers
- Crude units
- Isom units
- Sulphur plants

**WIKA fully understands the safety features required**

**WIKA has experience and expertise to understand best practices for routing**

## Level measurement

WIKA offers a wide range of level measuring instruments for temperatures up to 450 °C or pressure ranges up to 400 bar. A major part of the development is applied to individual solutions for the widest variety of applications in the chemical, pharmaceutical, offshore and petroleum, shipbuilding, and food industries, as well as for machine and plant building, water treatment plants and increasingly for the large environmental engineering sector.

WIKA offers a comprehensive range of bypass level indicators, level sensors, magnetic float switches and optoelectronic switches for temperatures up to 450 °C, densities from 400 kg/m<sup>3</sup> and pressure ranges up to 420 bar.

## Calibration technology

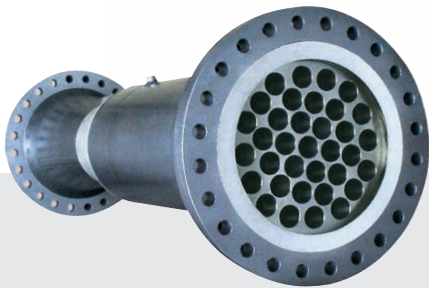
WIKA offers a broad product range of calibration instruments for the physical units of measurement for pressure and temperature, and for electrical measurands. Numerous patents ensure unmatched performance from many of our calibration instruments. The range of services covers the calibration of pressure and temperature measuring instruments in our accredited DKD/DAkkS calibration laboratories and a mobile service to calibrate your instruments on site.





## Primary flow elements

Our portfolio for primary flow elements includes orifice plates, meter runs, flow nozzles, Venturi tubes, pitot tubes and restriction orifices. With our extensive product range we are in a position to cover almost all industrial applications. Customised solutions can be developed to meet your specific needs.



# Service in every detail

## Acceptance tests

We offer our customers the opportunity to perform acceptance tests on WIKA products prior to delivery. This increases the security of the product coordination. This means that you can be sure that all instruments will arrive at the place of use in excellent condition.



## Tag signs

The measuring point numbers required within the project business can be engraved onto stainless steel tags or onto flanges. Furthermore, they can be printed onto adhesive labels or dials.



## Extensive documentation

Not only can we prepare data sheets, dimensional drawings and operating instructions especially for your project, but we can also provide material certificates, product certificates, quality plans, welding procedure tests, PMI tests, etc. To your design, in many languages and in either digital or print format.

The WIKA standard documentation complies with the legal conditions of acceptance (in paper format and/or as a navigable CD-ROM).

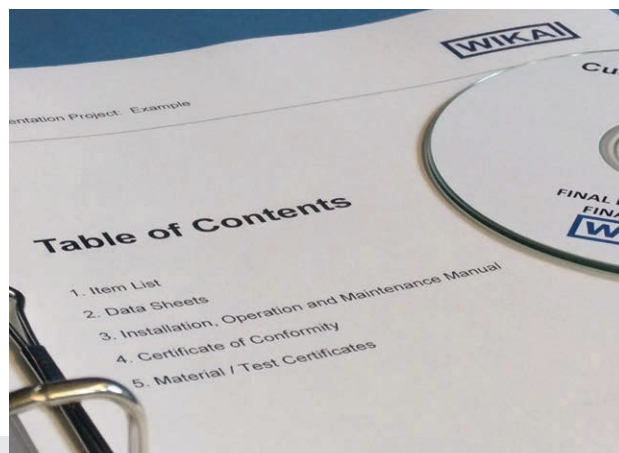
Our individual documents are constantly updated. They are subject to the “product lifecycle” (further development of the existing product). The clear assignment of documentation to the production order at the time of manufacture is ensured.

WIKA provides these documents in many languages and in the desired quantity.

### Customer-specific designs

Of course we can also provide the documentation according to your requirements:

- Customer logo
- Cover sheet layout
- Ring binders
- Sequence
- Further documentation



## Support from the very beginning

During all phases of the project WIKA remains your competent partner: Starting with planning in the basic and detail engineering, through realisation and implementation of the project, all the way to the after-sales support. WIKA provides ready-to-use instruments for direct implementation.



## Perfect logistics

Our reputation as a reliable partner is not only based on the product quality, but also on our on-time delivery. Whether wooden case or pallets, container shipment or sea-freight packaging, the way you specify it in your packaging instruction is the way WIKA will fulfil this wish.

Our efficient distribution system is supported by our subsidiaries and representative offices around the world. So you can be sure that your consignment will always arrive at the agreed time and at the requested place.

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You can find further information here!



Smart in sensing

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