

# Level measuring instruments



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## Ability to meet any challenge

As a family-run business acting globally, with over 7,900 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 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.

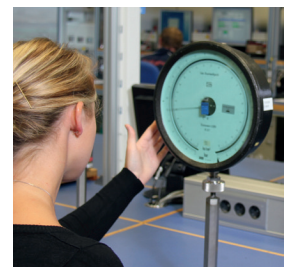
With manufacturing locations around the globe, WIKA ensures flexibility and the highest delivery performance. Every year, over 50 million quality products, both standard and customer-specific solutions, are delivered in batches of 1 to over 10,000 units. With numerous wholly-owned subsidiaries and partners, WIKA competently and reliably supports its customers worldwide. Our experienced engineers and sales experts are your competent and dependable contacts locally.



Efficient logistics



Fully automatic  
production



Certified calibration  
laboratories

# WIKA product lines

The WIKA portfolio covers the following product lines for various fields of application.

## 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. These instruments come supplied with standardized current or voltage output signals (also intrinsically safe per ATEX or with flameproof enclosure), interfaces and protocols for various field buses. Whether ceramic thick film, metal thin film or piezo-resistive, WIKA is the leading manufacturer worldwide that develops and produces the full range of today's leading sensor technologies.

## Mechatronic pressure measurement

As a result of the almost unlimited options for different combinations of mechanical and electrical connections, an extraordinary range of instrument variants is possible. Various digital and analogue output signals are also available for these measuring instruments.

For our measuring instruments we use the latest sensors, tested in automotive applications millions of times over. They work without any kind of mechanical contact, consequently they are wear-resistant, and there's absolutely no influence on the mechanics.

## 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 recognized and valued internationally for the most difficult of measuring tasks. The measuring instruments can therefore be used at extreme temperatures (-130 ... +400 °C), and with aggressive, corrosive, heterogeneous, abrasive, highly viscous or toxic media. The optimal diaphragm seal designs, materials and filling media are available for each application.

## 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 ... +1,600 °C are covered.

## Mechatronic temperature measurement

As a result of the integration of switch contacts and output signals into our mechanical temperature measuring instruments, we can offer a wide variety of combined instruments. With switch contacts the pointer position triggers a change-over. Electrical output signals are realized via an additional, independent sensor circuit (resistance thermometer or thermocouple).

## 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.

## Level measurement

WIKA has a comprehensive range of level measuring instruments available for temperatures up to 540 °C / 1000 °F, specific gravity from 400 kg/m<sup>3</sup> and pressure ranges up to 420 bar. This includes standard instruments and customized products.

## Flow measurement

Orifice plates, meter runs, flow nozzles, Venturi tubes and pitot tubes are part of our portfolio of primary flow elements and restriction orifices. The wide range of our products is able to cover the majority of industrial applications. Customized solutions can be developed to meet your special needs.

## 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.

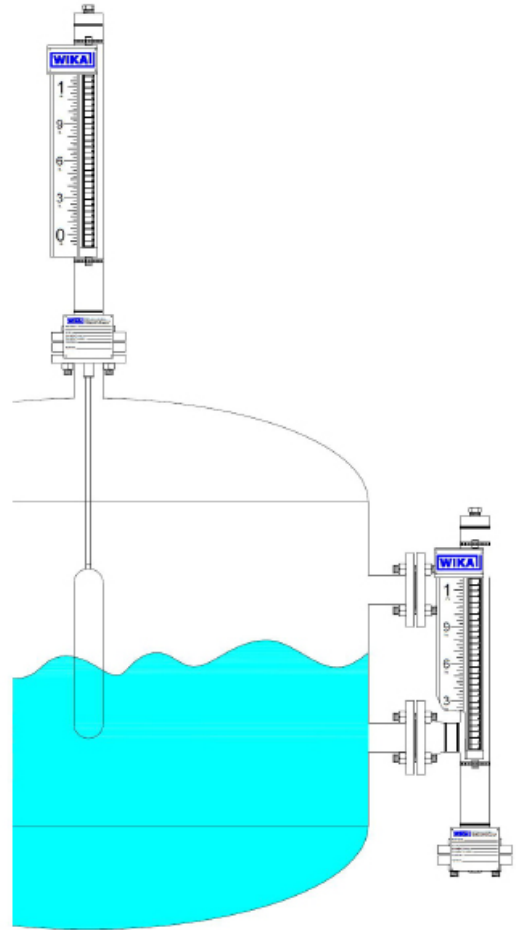
# Magnetic level indicators

### Theory of operation

WIKA engineers scrutinize each level application to assure the best solution to manage the simplest to the harshest process conditions. Floats are designed specifically for each application, taking into account process variables such as Temperature, Pressure and Specific Gravity.

Our skilled machinists and welders hone chambers out of a non-magnetic material, most commonly Stainless Steel. All steel chambers will be designed and constructed in accordance with ASME B31.1, B31.3, or to meet NACE if required. Level Gauge Chambers are built per end user's specifications to fit existing process connections or for new construction.

The WMI Series Magnetic Level Indicators can mount horizontally with side connections to a tank, or vertically, on top or below a tank. Each float includes a magnet assembly. As the tank level increases and decreases, so does the precision float. The magnetic flux of the float affects the bar-graph indicator assembly mounted outside of and isolated from the application conditions. This allows visual indication of process level without the threat of environmental damage or personnel injury due to glass gauge leakage or failure.



### Features

- Continuous level measurement via visual and non-invasive indication
- Individual design and corrosion resistant materials make the products suitable for a broad range of applications
- Temperature range up to 540°C / 1000°F
- Pressure range from vacuum up to 420 bar/6,000 PSI
- Interface measurement and overall level from  $\Delta$  density  $\geq$  100kg/m<sup>3</sup>
- Easy to install, no extra piping required for most installations
- Visual level indication up to 100 feet / 30 meters
- Indicator glass does not come in contact with process
- Reliable for high temperature, high pressure, and corrosive applications
- All level chambers are manufactured to meet ASME B31.1 or ASME B31.3

### Applications

WMI Series Magnetic Level Indicators are suitable for most industrial and commercial applications including:

- Chemical and petrochemical industries
- Energy and power plant technology
- Feed water heaters or boilers
- Oil and gas industries
- Offshore exploration and drilling
- Pipeline compressor applications
- Pulp and paper
- Food and beverage
- Gas plants
- Pharmaceutical

# Magnetic level indicators

The WMI Series Magnetic Level Indicator can be built economically for simple atmospheric pressure applications all the way to 5000+ PSI. Temperatures range from Cryogenic to 540 °C / 1000 °F. Standard lengths include up to 20'. Other lengths are available if a higher level gauge is required.

For most applications, Stainless Steel chambers are standard. The WMI Series allows for mating with Carbon Steel process vessels by including Carbon Steel flanges as an option. We offer a variety of Chamber Materials including Hastelloy C, Titanium, Inconel 625, Polypropylene, CPVC, Kynar and more.

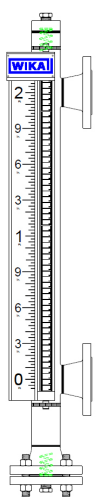
The simplest way to build a gauge would be to include NPT or slip-on flange connections. At WIKA, we go out of our way to assure that we reach your level of expectations. The WMI Series allows for a variety of flange options, threaded con-

nections, o-let's and more, ranging in size from ½" to 8" as standard. Furthermore, gauges can include any vent and drain configuration necessary. Are valves required? Give us your specifications and we'll make sure that your WMI series level indicator is ready for installation, right out of the box.

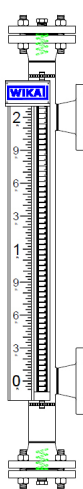
At WIKA, we assure quality engineering and workmanship is included with every WMI series magnetic level indicator chamber, but it doesn't stop there. We go to the next level including unmatched technology with the WMI indicator which utilizes the original magnetic bar-graph design: stainless steel flippers rotating on stainless steel pivot points. Any false indications caused by corrosion issues are eliminated, giving you confidence in the WIKA WMI series magnetic level indicator reading.

## Custom designed for your needs.

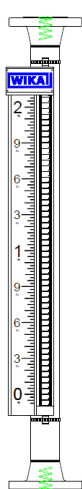
The WMI Series Magnetic Level Indicator is suitable for a variety of applications. Compared to the common Site Glass Gauge, the WMI Indicator provides better visibility of actual tank levels, requires virtually no maintenance, and increases the safety of any level gauge application.



Closed top, flanged bottom with side process connections



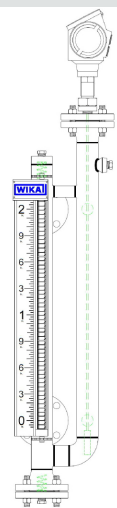
Flanged top and bottom with side process connections



Top and bottom process connections



Top mount



Dual chamber with redundant level transmitters and guided wave radar

# Sight glass level indicators

For steam generation and the process industry

### Transparent sight glass level indicator

With this level indicator design, the liquid is encapsulated between two transparent sight glasses.

This allows the liquid to be looked through and thus provides a clear indication of the level. Transparent level indicators are available in double-cover plate design for pressure ranges up to PN100.

They are the most suitable indicators for steam applications above 35 bar, where mica shields have to be used to protect the sight glasses from corrosion by the steam boiler water.

They can also be utilized in a great number of other applications, in particular for observing interface layers or liquid colour. A backlighting illuminator can be fitted to the rear to improve visibility.



Operating principle “transparent”

### Reflex sight glass level indicator

The principle of the reflex level indicator is based on the reflection of light. In the gas or steam phase, the light is reflected by the prismatic grooves of the sight glass so that bright indication is achieved. In the liquid phase, the light is absorbed, resulting in a dark indication of the level. Reflex level indicators are available in cover box design for pressure ranges up to PN 25 and in cover plate design for pressure ranges up to PN 100. They are the preferred, cost effective indicator for steam application up to 35 bar and are also suitable for numerous applications in the process industry.



Operating principle “reflex”

# Dual gauge series

Combines the tried-and-trusted bypass with further independent measuring principles

## Options

- Guided wave radar (GWR) w/ redundant level transmitter
- Reed measuring chain
- Magnetostrictive level transmitter
- Limit switch (magnetic, tuning fork)

The wide range of combination and design possibilities offer a very large application spectrum.

## Benefits

- Compact design
- Only 2 process connections required
- Absolute measuring redundancy possible
- Visual level measurement constantly given
- Up to 3 independent measuring principles possible
- Customer-specific versions

## Output signals/communication

2- and 4-wire technology, 4 ... 20 mA, HART®, PROFIBUS® PA, FOUNDATION™ Fieldbus/DTM/FDT (PACTware™)



# Magnetostrictive level transmitters

## Magnetostrictive liquid level sensors with Temposonics® technology

The Magnetostrictive level transmitter satisfies the demand for an analog communication interface for magnetic level gauge (MLG) applications. This transmitter provides a 4-20mA output for most MLG manufacturers and allows for mounting external to the chamber without interrupting the process. These transmitters are modular in design offering a selection of mounting options and pipe styles. The modularity also offers simple field replacement. Subject to local electrical codes, the sensing element and electronics can be removed from the transmitter pipe without disturbing the operation of the process, saving both time and money.

### Features

- 4 to 20 mA analog output with HART
- No scheduled maintenance or recalibration
- High accuracy and repeatability
- AMS aware
- Flame proof and/or intrinsically safe

### Applications

- Inventory Control
- Process Vessel
- Bypass Chamber



Magnetostrictive level transmitter

# Guided wave radar

## Continuous level measurement and point level detection in liquids and bulk solids

The guided wave radar offers measurement readings that are independent of the chemical or physical properties of the process media that it is in contact with. Additionally, the guided wave radar performs equally well in liquids and solids. Constant product quality, plant safety and economic efficiency - these are important aspects for any level measuring point. Levels in liquids, pastes, bulk solids or liquefied gases are often measured in tanks, silos or movable containers. For continuous, interface and density measurement as well as for point level detection, a broad range of measuring principles is available.

### Benefits

- Reliable measurement even for changing product and process conditions
- HistoROM data management for easy commissioning, maintenance and diagnostics
- Highest reliability due to Multi-Echo tracking
- Hardware and software developed according to IEC 61508 (up to SIL3)
- Seamless integration into control or asset management systems
- Intuitive user interface in national languages
- Easy proof test for SIL and WHG

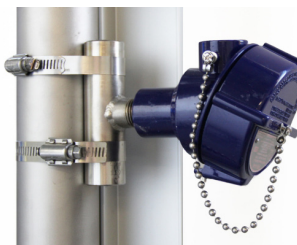


Guided wave radar

# Accessories

## Level switches

WIKI WRS level switches are non-invasive alarm switches that mount to the level gauge chamber and are magnetically actuated by the float through the chamber wall. These switches provide a low cost, reliable alarm and control without modification to the chamber.



Kimray Inc.® manufactures single point magnetically coupled electric and pneumatic level switches. These switches can be used for high or low level control. Manufactured in 316 stainless steel, these can be used in a wide variety of applications from separators, treaters, scrubbers, liquid accumulators and process vessels.



## Insulation

Insulation is recommended when applications are under extreme temperature conditions. Easily installed, removable insulation blankets are available in two configurations. The standard blanket is for temperatures up to 500°F (260°C) and a high temperature version is rated to 1100°F (590°C). Cryogenic options are also available.



## Optional scales

In addition to the standard stainless steel scale, other scale options are available. WIKI can provide scales in inches, metric units, percentages (0% - 100%) or custom.



## Documentation/Testing

All materials are supported by material traceability reports (MTR's), which are available upon request. Both NACE MR-01-75 and NACE MR0103 are available if required. All bolting, nuts, and fittings are ANSI B31.1/B31.3 compliant. All welding is performed by code certified welders.

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