

# 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 programme 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 standardised 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 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 recognised 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 realised 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 .35 and pressure ranges up to 5000 PSI. This includes standard instruments and customised 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. Customised 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.

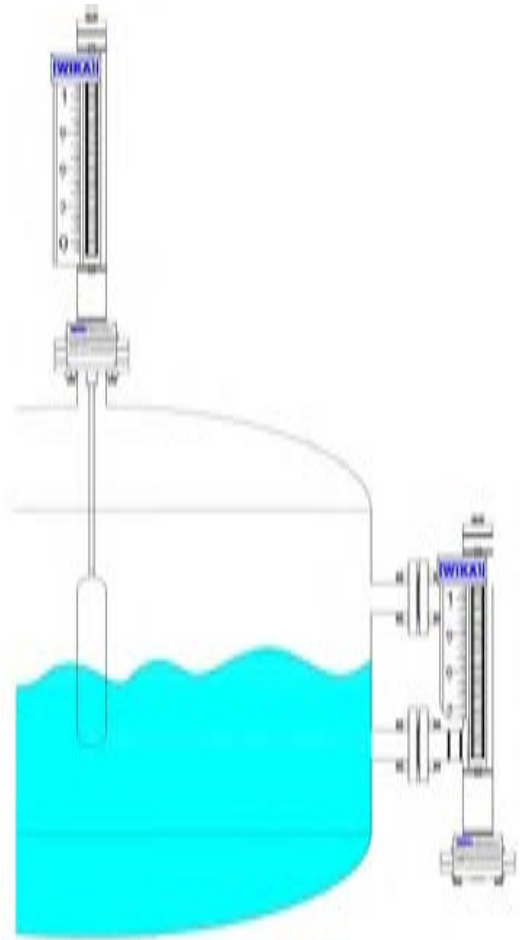
# Magnetic level indicators

## 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 to be mounted on top of 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 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 5,000 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, corrosive, and cryogenic 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
- Refining
- 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, 321SS, 317SS, Alloy20, 347SS, 254MO 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 Se-

ries allows for a variety of flange options, threaded connections, o-let's and more, ranging in size from 1/2" 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 disappear, only to be replaced by confidence in the WIKA WMI series magnetic level indicator.

## 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



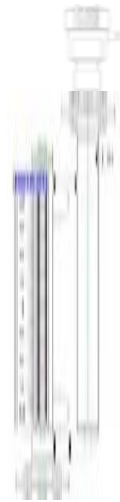
Flanged top and bottom with side process connections



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 utilised 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 suitable and favourably priced indicators for steam application up to 35 bar and are also suited 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)
- Through air radar
- Capacitance level transmitters

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®



# Magnetostrictive level transmitters

## Magnetostrictive liquid level sensors with temposonics technology

The MTS® brand 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 SITRANS LG series are guided wave radar transmitters for level, level/interface, and volume measurement of liquids and solids. It is unaffected by changes in process conditions, high temperatures and pressures, and steam. The SITRANS LG series comes in four different models, depending on the applications, level of performance, and functionality required including hygienic & corrosives, liquids, solids, and extreme conditions.

### Benefits

- High accuracy to +/- 2mm
- Advanced diagnostics available for safety
- Simple menu driven display offers ease of setup
- Large range of options offers reliability in most continuous measurement applications
- Ease of maintenance through module design and field replaceable and adjustable probe options
- Highly immune to buildup
- Measures complete range of probe, which is favorable for small vessels
- Functional safety suitable (SIL2)



Guided wave radar



# Reed chain transmitters

## WIKA models WIR and WFR

### Features

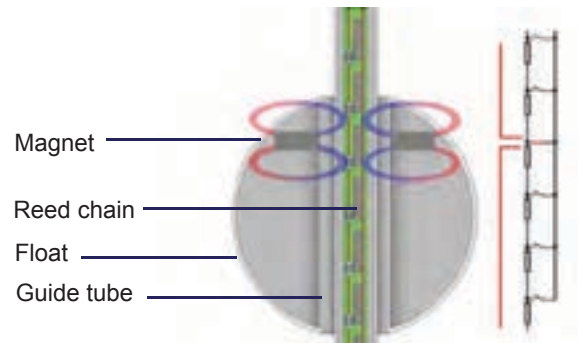
- Mounted internally with WIKA level chamber or externally with WIKA magnetic level indicator
- Offers a varying accuracy of 5mm to 18mm
- Can be offered with a stainless head for sanitary or 3A approved applications
- Robust design allows for temperature up to 600°F
- FM approved



Reed chain transmitter

### Reed chain operating principle

A float with a built in magnetic system actuates a small reed contact through the wall of the guide tube. These reed switches form a resistance measuring chain that continuously generates a voltage proportional to the height of the level. [See figure at right]



# Float level switches

## WIKA model WFS

### Features

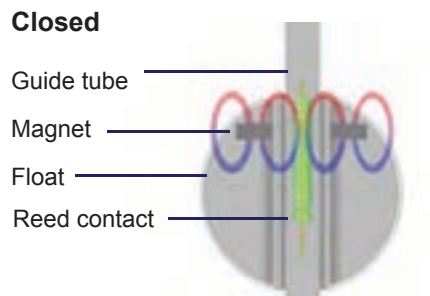
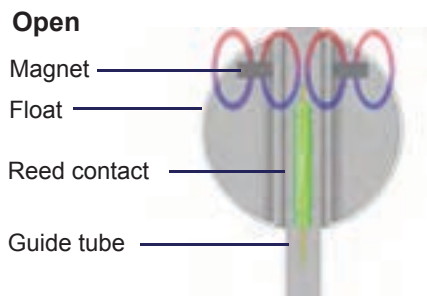
- Mounted in tank or with WIKA level chamber
- Ability to contact up to six switch points
- Can be offered with sanitary connections and stainless housing with 3A approval
- FM approved



Float switch

### Reed contacts operating principle

A float with a built in magnetic system actuates a small reed contact through the wall of the guide tube. Thus the switching operation is without direct contact to the liquid, free of wear and tear, and does not require any power supply. [See figures below]



# Accessories

## Level switches

WIKA 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.

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



## Insulation

### 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.



### Steam tracing

WIKA utilizes threaded steam trace blocks which provides an easy way to connect steam lines to the WIKA chamber.

### Electrical Heat tracing

WIKA provides both constant wattage and self-regulating heat tracing.



## Optional scales

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



## Documentation

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.

# Questionnaire

## WMI Series Magnetic Level Indicator

## WLC Series Level Chamber

Company _____	Date _____
Name _____	Phone _____
Department _____	Mobile _____
Address _____	Fax _____
	E-mail _____

**Design conditions**

Process liquid _____	Minimum Spec. G avity _____	Design Pressure _____
High Vibration <input type="checkbox"/>	Interface <input type="checkbox"/>	Operating Pressure _____
Capability to boil or flash <input type="checkbox"/>	Interface Spec. G avity <input type="checkbox"/>	Design Temperature _____
ASME <input type="checkbox"/> B 31.3 <input type="checkbox"/> B 31.1		Operating Temperature _____

**Design information**

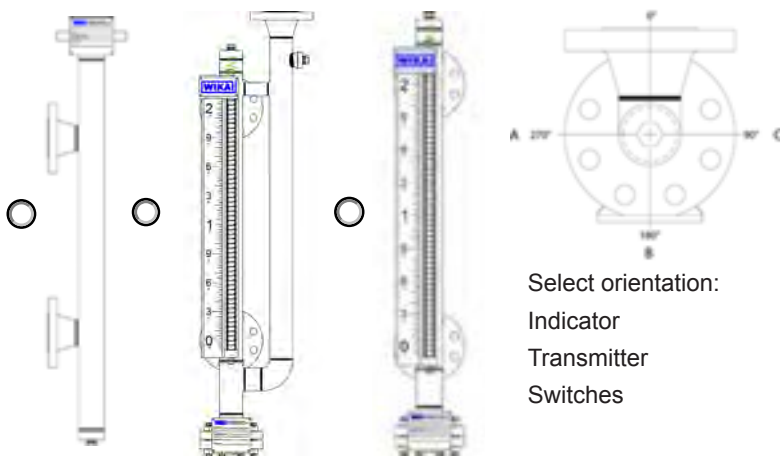
Center to Center _____	Indicator Dimension (if other than C to C) _____
Chamber Material _____	Process Connection _____ Welded <input type="checkbox"/> Threaded <input type="checkbox"/>
Flanged <input type="checkbox"/>	Chamber Rating _____
Vent or Drain _____	Size _____
Indicator Style _____	Metric <input type="radio"/> Imperial <input type="radio"/>

**Optional Output**

Transmitter <input type="radio"/> Magnetostrictive <input type="radio"/> Reed _____	Switch <input type="radio"/> Dry Contact <input type="radio"/> Reed _____
Other (please specify) _____	Other (please specify) _____

**Testing and Documentation**

Hydrochart <input type="checkbox"/>	X-Ray Butt Welds <input type="checkbox"/>	100 % Final <input type="checkbox"/>	10% Spot <input type="checkbox"/>	NACE <input type="checkbox"/>
Hydrotest Certificate <input type="checkbox"/>	PMI <input type="checkbox"/>	Third Party PMI <input type="checkbox"/>	CRN <input type="checkbox"/>	
Dye Pen Fillet Welds <input type="checkbox"/>	Material Certification <input type="checkbox"/>	Visual <input type="checkbox"/>	Other _____	



Notes:

# WIKA worldwide

## Europe

### Austria

WIKA Messgerätevertrieb  
Ursula Wiegand GmbH & Co. KG  
1230 Vienna  
Tel. (+43) 1 86916-31  
Fax: (+43) 1 86916-34  
E-mail: info@wika.at  
www.wika.at

### Belarus

WIKA Belarus  
Ul. Zaharova 50B  
Office 3H  
220088 Minsk  
Tel. (+375) 17-294 57 11  
Fax: (+375) 17-294 57 11  
E-mail: info@wika.by  
www.wika.by

### Benelux

WIKA Benelux  
6101 WX Echt  
Tel. (+31) 475 535-500  
Fax: (+31) 475 535-446  
E-mail: info@wika.nl  
www.wika.nl

### Bulgaria

WIKA Bulgaria EOOD  
1330 Sofia, 2E Akad. Ivan Geshov Blvd.  
Business Center Serdika, office 3/104  
Tel. (+359) 2 82138-10  
Fax: (+359) 2 82138-13  
E-mail: info@wika.bg  
www.wika.bg

### Croatia

WIKA Croatia d.o.o.  
Hrastovicka 19  
10250 Zagreb-Lucko  
Tel. (+385) 1 6531034  
Fax: (+385) 1 6531357  
E-mail: info@wika.hr  
www.wika.hr

### Finland

WIKA Finland Oy  
00210 Helsinki  
Tel. (+358) 9-682 49 20  
Fax: (+358) 9-682 49 270  
E-mail: info@wika.fi  
www.wika.fi

### France

WIKA Instruments s.a.r.l.  
95610 Eragny-sur-Oise  
Tel. (+33) 1 343084-84  
Fax: (+33) 1 343084-94  
E-mail: info@wika.fr  
www.wika.fr

### Germany

WIKA Alexander Wiegand  
SE & Co. KG  
63911 Klingenberg  
Tel. (+49) 9372 132-0  
Fax: (+49) 9372 132-016  
E-mail: info@wika.de  
www.wika.de

### Italy

WIKA Italia Srl & C. Sas  
20020 Arese (Milano)  
Tel. (+39) 02 9386-11  
Fax: (+39) 02 9386-174  
E-mail: info@wika.it  
www.wika.it

### Poland

WIKA Polska spółka z ograniczoną  
odpowiedzialnością sp. k.  
ul. Legska 29/35  
87-800 Włocławek  
Tel. (+48) 542 3011-00  
Fax: (+48) 542 3011-01  
E-mail: info@wikapolska.pl  
www.wikapolska.pl

### Romania

WIKA Instruments Romania S.R.L.  
Bucuresti, Sector 5  
Calea Rahovei Nr. 266-268  
Corp 61, Etaj 1  
Tel. (+40) 21 4048327  
Fax: (+40) 21 4563137  
E-mail: m.anghel@wika.ro  
www.wika.ro

### Russia

ZAO WIKA MERA  
127015 Moscow  
Tel. (+7) 495-648 01 80  
Fax: (+7) 495-648 01 81  
E-mail: info@wika.ru  
www.wika.ru

### Serbia

WIKA Merna Tehnika d.o.o.  
Sime Solaje 15  
11060 Belgrade  
Tel. (+381) 11 2763722  
Fax: (+381) 11 753674  
E-mail: info@wika.rs  
www.wika.rs

### Spain

Instrumentos WIKA S.A.U.  
C/ Josep Carner, 11-17  
08205 Sabadell (Barcelona)  
Tel. (+34) 933 938630  
Fax: (+34) 933 938666  
E-mail: info@wika.es  
www.wika.es

### Switzerland

MANOMETER AG  
6285 Hitzkirch  
Tel. (+41) 41 91972-72  
Fax: (+41) 41 91972-73  
E-mail: info@manometer.ch  
www.manometer.ch

### Turkey

WIKA Instruments Istanbul  
Basinc ve Sicaklik Ölçme Cihazlari  
Ith. Ihr. ve Tic. Ltd. Sti.  
Bayraktar Bulvarı No. 17  
34775 Şerifali-Yukarı Dudullu - Istanbul  
Tel. (+90) 216 41590-66  
Fax: (+90) 216 41590-97  
E-mail: info@wika.com.tr  
www.wika.com.tr

### Ukraine

TOV WIKA Prylad  
M. Raskovoy Str. 11, A  
PO 200  
02660 Kyiv  
Tel. (+38) 044 496-8380  
Fax: (+38) 044 496-8380  
E-mail: info@wika.ua  
www.wika.ua

### United Kingdom

WIKA Instruments Ltd  
Merstham, Redhill RH13LG  
Tel. (+44) 1737 644-008  
Fax: (+44) 1737 644-403  
E-mail: info@wika.co.uk  
www.wika.co.uk

## North America

### Canada

WIKA Instruments Ltd.  
Head Office  
Edmonton, Alberta, T6N 1C8  
Tel. (+1) 780 46370-35  
Fax: (+1) 780 46200-17  
E-mail: info@wika.ca  
www.wika.ca

### Mexico

Instrumentos WIKA Mexico  
S.A. de C.V.  
06600 Mexico D.F.  
Tel. (+52) 55 50205300  
Fax: (+52) 55 50205300  
E-mail: ventas@wika.com  
www.wika.com.mx

### USA

WIKA Instrument, LP  
Lawrenceville, GA 30043  
Tel. (+1) 770 5138200  
Fax: (+1) 770 3385118  
E-mail: info@wika.com  
www.wika.com

Gayesco-WIKA USA LP  
229 Beltway Green Blvd  
Pasadena, TX 77503  
Tel. (+1) 713-475 0022  
Fax: (+1) 713-475 0011  
E-mail: info@wikahouston.com  
www.wika.com  
www.gayesco.wika.com

Mensor Corporation  
201 Barnes Drive  
San Marcos, TX 78666  
Tel. (+1) 512 3964200-15  
Fax: (+1) 512 3961820  
E-mail: sales@mensor.com  
www.mensor.com

## South America

### Argentina

WIKA Argentina S.A.  
Buenos Aires  
Tel. (+54) 11 47301800  
Fax: (+54) 11 47610050  
E-mail: info@wika.com.ar  
www.wika.com.ar

### Brazil

WIKA do Brasil Ind. e Com. Ltda.  
CEP 18560-000 Iperó - SP  
Tel. (+55) 15 34599700  
Fax: (+55) 15 32661650  
E-mail: vendas@wika.de  
www.wika.com.br

### Chile

WIKA Chile S.p.A.  
Coronel Pereira 72  
Oficina 101  
Las Condes  
Santiago de Chile  
Tel. (+56) 2 23651719  
E-mail: info@wika.cl  
www.wika.cl

### Colombia

Instrumentos WIKA Colombia S.A.S.  
Dorado Plaza,  
Avenida Calle 26 No. 85D - 55  
Local 126 y 126 A  
Bogotá - Colombia  
Tel. (+57) 1 744 3455  
E-mail: info@wika.co

## Asia

### Azerbaijan

WIKA Azerbaijan LLC  
Caspian Business Center  
9th floor 40 J. Jabbarli str.  
AZ1065 Bak  
Tel. (+994) 12 497 04-61  
Fax: (+994) 12 497 04-62

### China

WIKA International Trading (Shanghai)  
Co., Ltd.  
A2615, NO.100, Zunyi Road  
Changning District  
Shanghai 200051  
Tel. (+86) 21 538525-72  
Fax: (+86) 21 538525-75  
E-mail: info@wika.cn  
www.wika.com.cn

WIKA Instrumentation (Suzhou)  
Co., Ltd.  
81, Ta Yuan Road,  
SND, Suzhou 215011  
Tel. (+86) 512 68788000  
Fax: (+86) 512 68780300  
E-mail: info@wika.cn  
www.wika.com.cn

### India

WIKA Instruments India Pvt. Ltd.  
Village Kesnand, Wagholi  
Pune - 412 207  
Tel. (+91) 20 66293-200  
Fax: (+91) 20 66293-325  
E-mail: sales@wika.co.in  
www.wika.co.in

### Japan

WIKA Japan K. K.  
Tokyo 105-0023  
Tel. (+81) 3 543966-73  
Fax: (+81) 3 543966-74  
E-mail: info@wika.co.jp  
www.wika.co.jp

### Kazakhstan

TOO WIKA Kazakhstan  
050050 Almaty  
Tel. (+7) 727 2330848  
Fax: (+7) 727 2789905  
E-mail: info@wika.kz  
www.wika.kz

### Korea

WIKA Korea Ltd.  
#569-21 Gasan-dong  
Seoul 153-771 Korea  
Tel. (+82) 2 869 05 05  
Fax: (+82) 2 869 05 25  
E-mail: info@wika.co.kr  
www.wika.co.kr

### Malaysia

WIKA Instrumentation (M) Sdn. Bhd.  
47100 Puchong, Selangor  
Tel. (+60) 3 80 63 10 80  
Fax: (+60) 3 80 63 10 70  
E-mail: info@wika.com.my  
www.wika.com.my

### Philippines

WIKA Instruments Philippines, Inc.  
Unit 102 Skyway Twin Towers  
351 Capt. Henry Javier St.  
Bgy. Oranbo, Pasig City  
Tel. (+63) 2 234-1270  
Fax: (+63) 2 695-9043  
E-mail: danny.reodica@wika.com  
www.wika.com.ph

### Singapore

WIKA Instrumentation Pte. Ltd.  
569625 Singapore  
Tel. (+65) 68 44 55 06  
Fax: (+65) 68 44 55 07  
E-mail: info@wika.com.sg  
www.wika.com.sg

## Taiwan

WIKA Instrumentation Taiwan Ltd.  
Pinjen, Taoyuan  
Tel. (+886) 3 420 6052  
Fax: (+886) 3 490 0080  
E-mail: info@wika.com.tw  
www.wika.com.tw

## Thailand

WIKA Instrumentation Corporation  
(Thailand) Co., Ltd.  
850/7 Ladkrabang Road, Ladkrabang  
Bangkok 10520  
Tel. (+66) 2 326 6876-80  
Fax: (+66) 2 326 6874  
E-mail: info@wika.co.th  
www.wika.co.th

## Africa / Middle East

### Egypt

WIKA Near East Ltd.  
Villa No. 6, Mohamed Fahmy  
Elmohdar St. - of Eltayaran St.  
1st District - Nasr City - Cairo  
Tel. (+20) 2 240 13130  
Fax: (+20) 2 240 13113  
E-mail: info@wika.com.eg  
www.wika.com.eg

### Namibia

WIKA Instruments Namibia (Pty) Ltd.  
P.O. Box 31263  
Pionierspark  
Windhoek  
Tel. (+26) 4 6123 8811  
Fax: (+26) 4 6123 3403  
E-mail: info@wika.com.na  
www.wika.com.na

### South Africa

WIKA Instruments (Pty.) Ltd.  
Gardenview,  
Johannesburg 2047  
Tel. (+27) 11 62100-00  
Fax: (+27) 11 62100-59  
E-mail: sales@wika.co.za  
www.wika.co.za

### United Arab Emirates

WIKA Middle East FZE  
Jebel Ali, Dubai  
Tel. (+971) 4 8839-090  
Fax: (+971) 4 8839-198  
E-mail: wikame@emirates.net.ae  
www.wika.ae

## Australia

### Australia

WIKA Australia Pty. Ltd.  
Rydalmere, NSW 2116  
Tel. (+61) 2 88455222  
Fax: (+61) 2 96844767  
E-mail: sales@wika.com.au  
www.wika.com.au

### New Zealand

WIKA Instruments Limited  
Unit 7 / 49 Sainsbury Road  
St Lukes - Auckland 1025  
Tel. (+64) 9 8479020  
Fax: (+64) 9 8465964  
E-mail: info@wika.co.nz  
www.wika.co.nz

**WIKA Alexander Wiegand SE & Co. KG**  
Alexander-Wiegand-Straße 30 · 63911 Klingenberg · Germany  
Tel. +49 9372 132-0 · Fax +49 9372 132-406  
E-Mail info@wika.de · www.wika.de



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