Product review

Level measuring instruments

Part of your business

Contents

Fully automatic production of measuring instruments

The modern high-bay warehouse ensures efficient logistics

Ability to meet any challenge

Our knowledge for your success

In the course of the last six decades the name WIKA has become a symbol for sophisticated solutions in the field of pressure and temperature measurement.

Our ever increasing ability is the basis for implementation of innovative technologies in the form of reliable products and efficient system solutions.

We owe our leading position in the world market to the consistent dedication towards premium quality, to which, today, 7,000 employees of the WIKA group of companies are committed. More than 500 experienced sales staff ensure that our customers are individually and competently advised and looked after from the outset.
Anywhere and any time.

Certified quality

The WIKA quality assurance management system has been certified in accordance with ISO 9001 since 1994. The quality and safety standards of our company meet the standard systems of several countries.

Made by WIKA

The development and high-tech production in our owned modern production facilities (Germany, Brazil, China, India, Canada, Poland, Switzerland, South Africa and U.S.A.) is the best warranty for our flexibility.

Whether SMD automatic insertion machines, CNC automatic machining centres, welding robots, laser welding, sputterers, thermotransfer printing or thin film production - we exploit all possibilities to achieve above-average results. And the end result: More than 43 million quality products are delivered year in, year out, in more than 100 countries. Worldwide, approximately 350 million WIKA measuring instruments are in use.

DKD/DAkkS accredited calibration laboratories for pressure and temperature

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

Diaphragm seals

WIKA diaphragm seals, fitted 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 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, covering measuring ranges from -200 ... +1,600 °C.

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 changeover. 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 as required.

Level measurement

WIKA has a comprehensive range of level measuring instruments available for temperatures up to 450 °C, specific gravity from 400 kg/m^3 and pressure ranges up to 420 bar. This includes standard instruments and customised products.

Calibration technology

WIKA offers a broad product spectrum of calibration instruments for the physical measured values of pressure and temperature, and for electrical measured values. A multitude of specific patents ensure unmatched performance characteristics with many of our calibration instruments.
The range of services comprises 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.

For all product lines product reviews are available.

Bypass level indicators

Continuous level measurement via visual indication of the level without power supply

Benefits

- Simple and sturdy design
- Level displayed proportional to volume or height
- Pressure- and gas-tight separation between chamber and display/measuring equipment
- Individual design and corrosion resistant materials make the products suitable for a broad range of applications
- Pressure range from vacuum up to 420 bar
- Temperature range up to 450 °C
- S.G. ≥ 400 kg/m^3
- Explosion-proof versions
- Interface measurement and overall level from Δ S.G. ≥ 50 kg/m^3

Options

The following devices can be attached externally to the bypass level indicator to provide additional functionality:

Level sensors

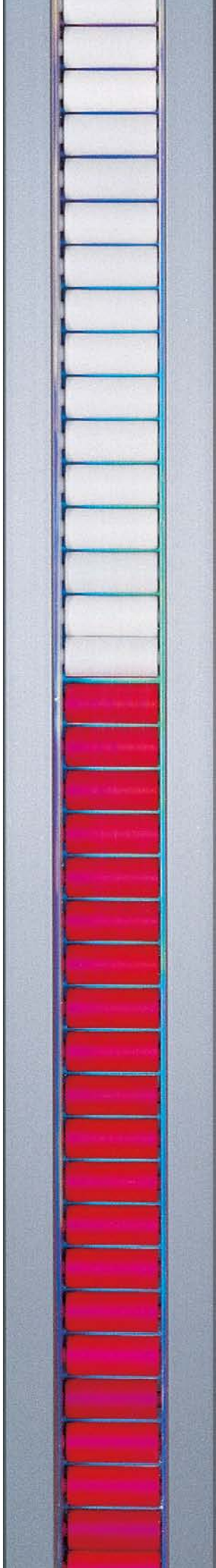
These are used for continuous monitoring and recording of the level in connection with external transmitters. They transform the resistance value of the level sensors into a standardised analogue signal that is proportional to the height of the level. 2-wire head-mounted transmitters are available in the versions programmable 4 ... 20 mA, HART® protocol, PROFIBUS® PA and FOUNDATION™ Fieldbus.

Magnetic switches

They serve to detect the limits of filling levels.
They generate a binary signal which can be which can be fed to down stream signalling or control equipment.

Magnetic roller display with and without scale

Two-coloured, continuous visual indication of the current level without power supply.



BNA

Stainless steel version

Material:	Austenitic steels, 6Mo, Hastelloy, titanium, Monel, Inconel, Incoloy, Duplex, Super Duplex
Process connection:	■ Flange: DIN, ANSI ■ Thread ■ Weld stub
Temperature:	-160 ... +450 °C
S.G.:	≥ 400 kg/m³
Data sheet:	LM 10.01

BNA

Plastic version

Material:	PVDF, PP
Process connection:	Flange: DIN, ANSI
Pressure:	PVDF 6 bar, PP 4 bar, PVC 4 bar
Temperature:	-25 ... +80 °C
S.G.:	≥ 800 kg/m³
Data sheet:	LM 10.01

Other versions on request.

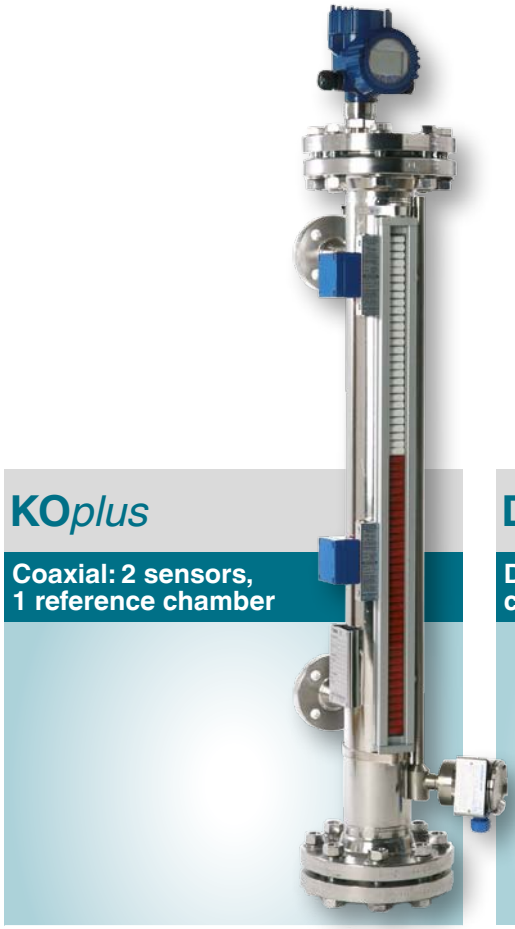
PLUS series

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

PLUS
Guided microwave (TDR)
Reed measuring chain
Magnetostrictive
Limit switch (magnetic, tuning fork)
The wide range of combination 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 designs

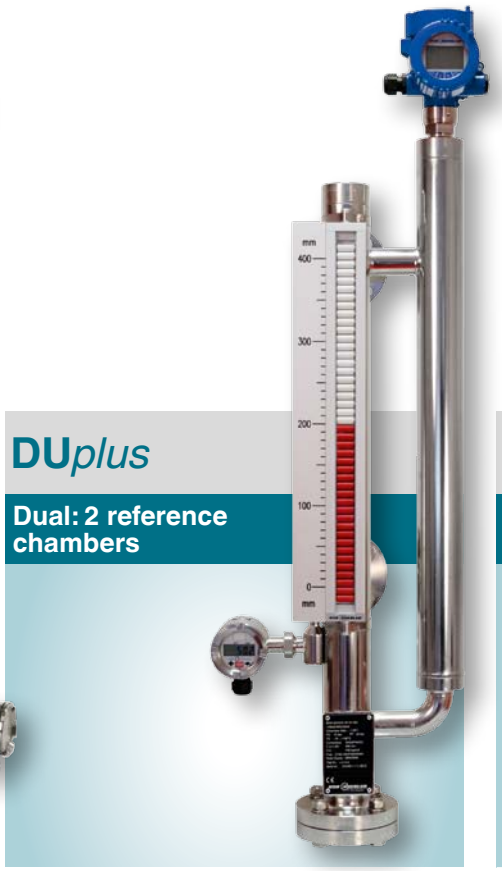
Output signals/communication
2- and 4-wire technology, 4 ... 20 mA, HART®, PROFIBUS® PA, FOUNDATION™ Fieldbus/DTM/FDT (PACTware™)



KO*plus*

Coaxial: 2 sensors, 1 reference chamber

Material:	Stainless steel, 6Mo, Hastelloy, titanium, Monel, Inconel, Incoloy, Duplex, Super Duplex
Pressure:	0 ... 40 bar
Temperature:	-200 ... +400 °C
S.G.:	≥ 400 kg/m³



DU*plus*

Dual: 2 reference chambers

Material:	Stainless steel, 6Mo, Hastelloy, titanium, Monel, Inconel, Incoloy, Duplex, Super Duplex
Pressure:	0 ... 400 bar
Temperature:	-200 ... +400 °C
S.G.:	≥ 400 kg/m³

SI*plus*

Single: 1 reference chamber

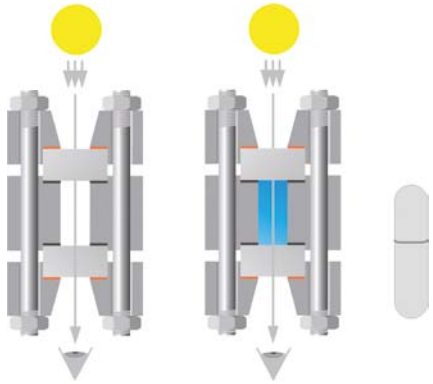
Material:	Stainless steel, 6Mo, Hastelloy, titanium, Monel, Inconel, Incoloy, Duplex, Super Duplex
Pressure:	0 ... 400 bar
Temperature:	-200 ... +400 °C
S.G.:	≥ 400 kg/m³

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 PN 100. They are the most suitable gauges for steam application 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 backlight illuminator can be fitted to the rear to improve visibility.

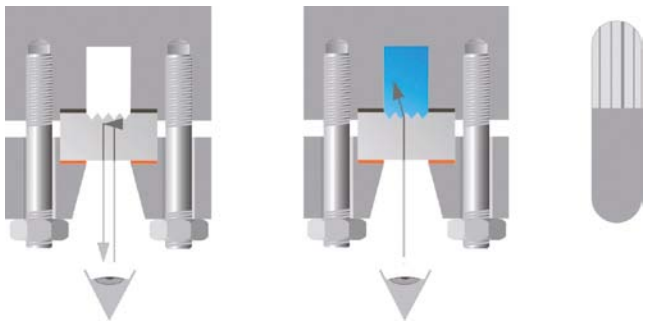


Gas phase (bright), liquid phase (bright), phase boundary (dark)

Operating principle "transparent"

Reflex sight glass level indicator

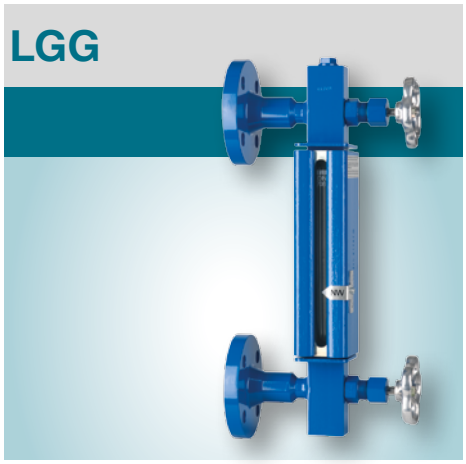
The principle of the reflex level indicator is based on the reflection of light. In the gas or steam phase, the light is reflected by the prismatic grooves of the sight glass so that bright indication is achieved. In the liquid phase, the light is absorbed, resulting in a dark indication of the level. 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.



Gas phase (bright) Liquid phase (dark)

Operating principle "reflex"

LGG



Material:	Forged steel, high-temperature C-steel, stainless steel, Monel, Hastelloy
Design:	Available as welded, glass tube, reflection, transparent and refraction indicators
Pressure:	0 ... 250 bar
Temperature:	-200 ... +400 °C
Data sheet:	LM 33.01

Other versions on request.

High-precision level measurement

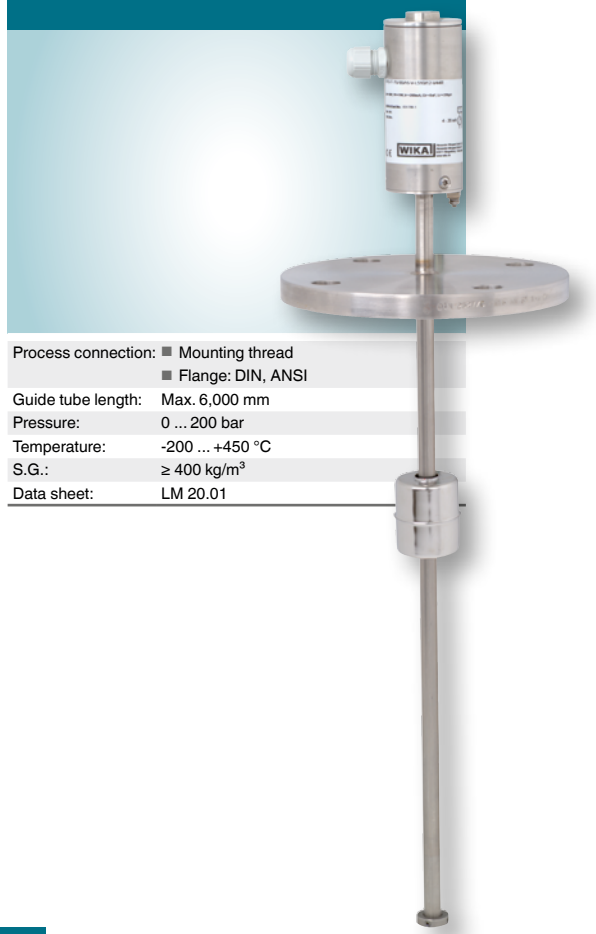
For liquid media, employing the magnetostrictive measuring principle

Benefits

- The simple and effective principle of operation is suitable for a very wide range of applications.
- Continuous measurement of levels, independent of physical and chemical changes of the liquid such as foaming, conductivity, dielectric constant, pressure, vacuum, temperature, vapours, condensation, bubble formation, boiling effects, specific gravity change
- Signal transmission over long distances
- Simple installation and commissioning, onetime calibration only, no recalibration necessary
- Interface measurement and overall level from Δ S.G. ≥ 50 kg/m³
- Explosion-proof versions
- Functional safety IEC 61508/IEC 61511, SIL-2
- Output signal: 4 … 20 mA, HART®
- Measuring accuracy ≤ 1 mm

FFG

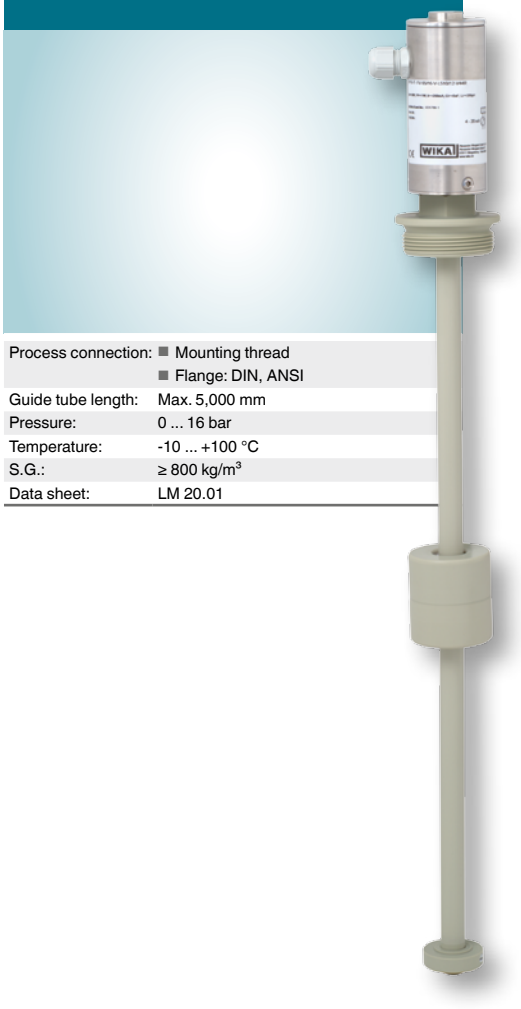
Stainless steel version



Process connection:	■ Mounting thread ■ Flange: DIN, ANSI
Guide tube length:	Max. 6,000 mm
Pressure:	0 ... 200 bar
Temperature:	-200 ... +450 °C
S.G.:	≥ 400 kg/m³
Data sheet:	LM 20.01

FFG

Plastic version



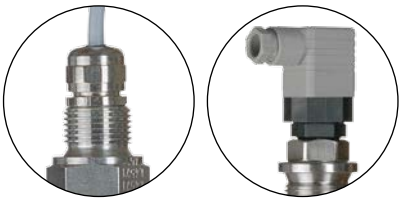
Process connection:	■ Mounting thread ■ Flange: DIN, ANSI
Guide tube length:	Max. 5,000 mm
Pressure:	0 ... 16 bar
Temperature:	-10 ... +100 °C
S.G.:	≥ 800 kg/m³
Data sheet:	LM 20.01

Level sensors

For liquid media, utilising reed measuring chains

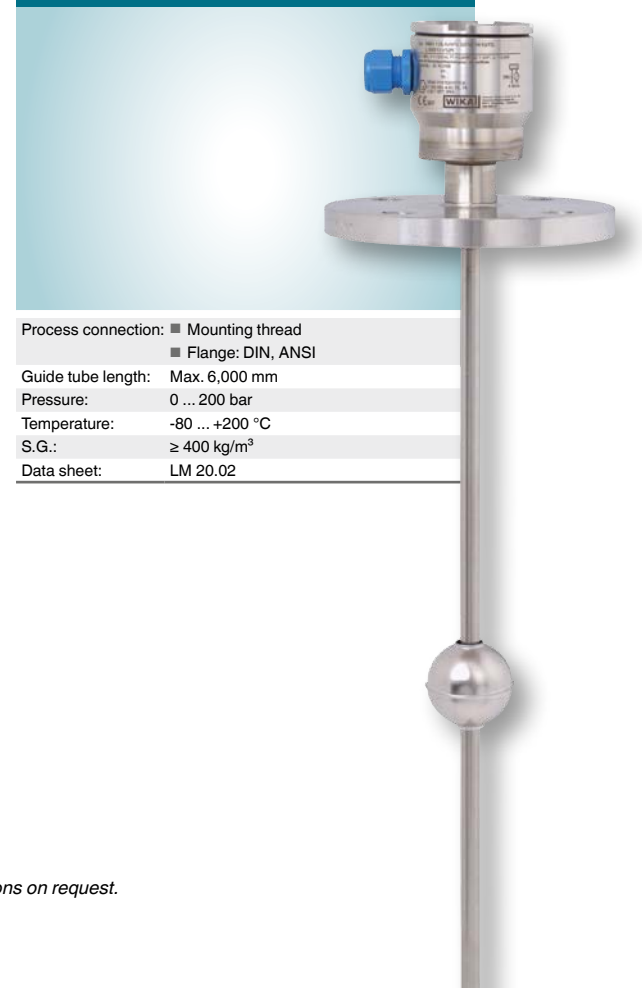
Benefits

- The reliable and proven operation principle is suitable for a very wide range of applications
- Continuous measurement of levels, independent of physical and chemical changes of the liquid such as foaming, conductivity, dielectric constant, pressure, vacuum, temperature, vapours, condensation, bubble formation, boiling effects, specific gravity change
- Signal transmission over long distances
- Simple installation and commissioning, onetime calibration only, no recalibration necessary.
- Interface measurement and overall level from Δ S.G. ≥ 50 kg/m³
- Explosion-proof versions
- Output signal 4 ... 20 mA, HART®, PROFIBUS® PA, FOUNDATION™ Fieldbus
- Resolution ≥ 5 mm
- Level displayed proportional to volume or height
- In combination with limit switches, stepless setting of the limit values possible over the entire measuring range
- High repeatability accuracy of the set points
- Cable and plug versions



RMG

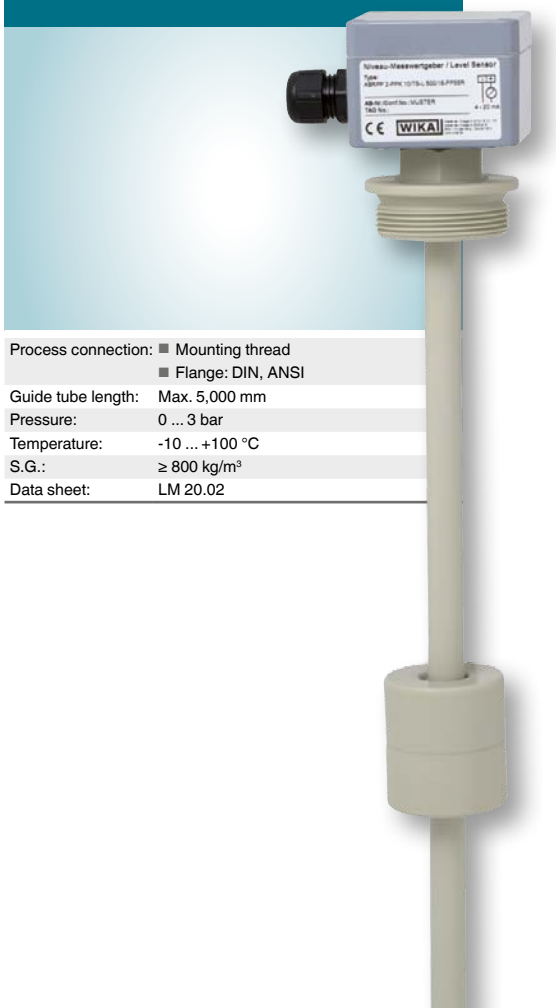
Stainless steel version



Process connection:	■ Mounting thread ■ Flange: DIN, ANSI
Guide tube length:	Max. 6,000 mm
Pressure:	0 ... 200 bar
Temperature:	-80 ... +200 °C
S.G.:	≥ 400 kg/m³
Data sheet:	LM 20.02

RMG

Plastic version, polyester, ABS, PP

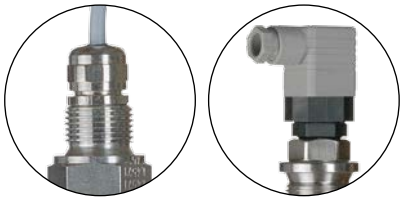


Process connection:	■ Mounting thread ■ Flange: DIN, ANSI
Guide tube length:	Max. 5,000 mm
Pressure:	0 ... 3 bar
Temperature:	-10 ... +100 °C
S.G.:	≥ 800 kg/m³
Data sheet:	LM 20.02

Other versions on request.

Float switches with permanent magnet

Sturdy switches for liquid media



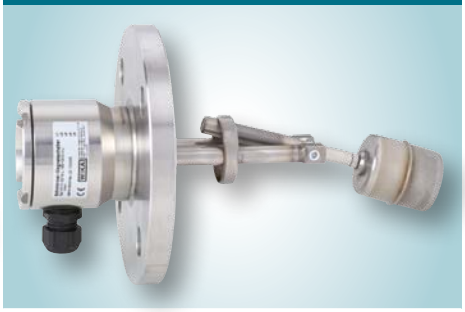
LSD-30

Electronic level switch, with display

Measuring range:	Sensor length 250, 370, 410, 520, 730 mm
S.G.:	> 0.7 g/cm³ (NBR float)
Switching output:	■ 1 or 2 (PNP or NPN) ■ Analogue output (optional)
Process connection:	G ¾ A, ¾ NPT
Data sheet:	LM 40.01

HIF

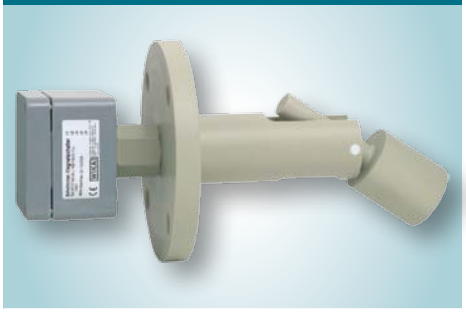
Stainless steel version, for horizontal installation



Process connection:	Flange: DIN, ANSI
Pressure:	0 ... 160 bar
Temperature:	-196 ... +350 °C
S.G.:	≥ 600 kg/m³
Material:	Stainless steel, titanium, Hastelloy
Data sheet:	LM 30.02

HIF

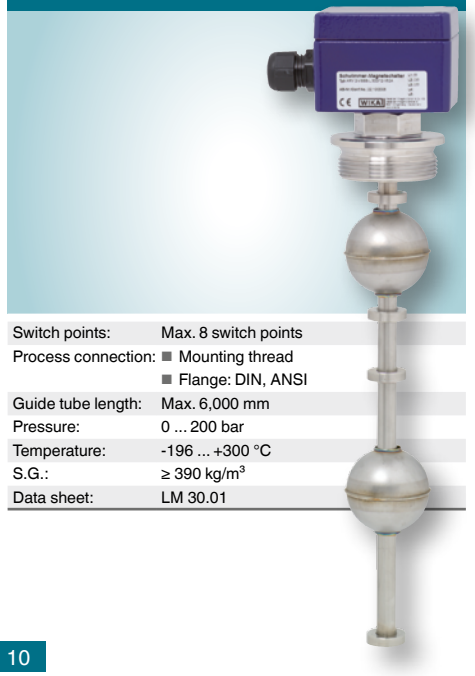
Plastic version, for horizontal installation



Process connection:	Flange: DIN, ANSI
Pressure:	0 ... 3 bar
Temperature:	-10 ... +80 °C
S.G.:	≥ 750 kg/m³
Material:	PP
Data sheet:	LM 30.02

RSM

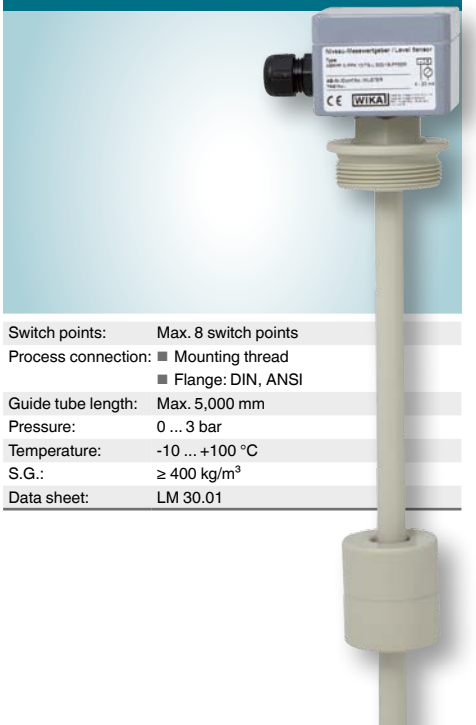
Stainless steel version, for vertical installation



Switch points:	Max. 8 switch points
Process connection:	■ Mounting thread ■ Flange: DIN, ANSI
Guide tube length:	Max. 6,000 mm
Pressure:	0 ... 200 bar
Temperature:	-196 ... +300 °C
S.G.:	≥ 390 kg/m³
Data sheet:	LM 30.01

RSM

Plastic design, for vertical installation



Switch points:	Max. 8 switch points
Process connection:	■ Mounting thread ■ Flange: DIN, ANSI
Guide tube length:	Max. 5,000 mm
Pressure:	0 ... 3 bar
Temperature:	-10 ... +100 °C
S.G.:	≥ 400 kg/m³
Data sheet:	LM 30.01

RSB

For lateral mounting

Reference chamber:	Aluminium, red bronze, stainless steel
Process connection:	■ Threaded pipe connection GE10-LR galvanised steel ■ Flange: DIN, ANSI ■ Weld stub
Pressure:	Max. 40 bar (in the reference chamber)
Temperature:	-30 ... +300 °C
Data sheet:	LM 30.03

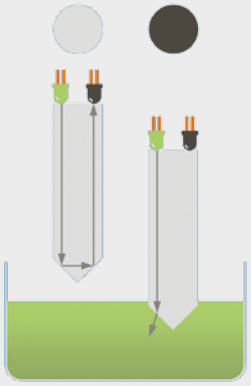
Optoelectronic switches

For applications with limited mounting space

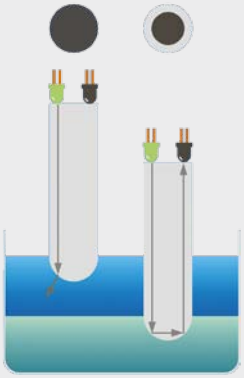
Benefits

- Recording of the level with the cone tip is independent to a large extent of the physical characteristics of the liquids such as specific gravity, di-electric constant, conductivity, colour and refractive index
- Detection of interface layers with rounded tip
- The extremely compact design guarantees minimum space re-quirements and measurement in very small volumes

Operating principle



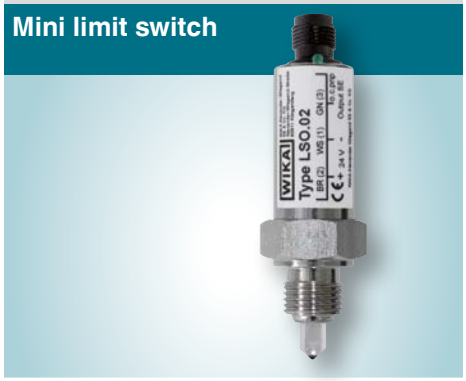
Level



Interface layer

LSO.02

Mini limit switch



Material:	Stainless steel, quartz glass, PTFE
Process connection:	■ M16 x 1.5 ■ G ½ A ■ ½ NPT
Insertion length:	24 mm
Pressure:	0 ... 50 bar
Temperature:	-30 ... +140 °C
Data sheet:	LM 31.01

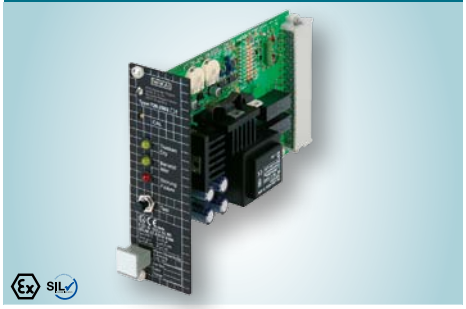
LSO.06

Transducer

Material:	Stainless steel, Hastelloy, KM-glass, quartz glass, sapphire, graphite
Process connection:	■ G ½ A ■ ½ NPT
Pressure:	0 ... 500 bar
Temperature:	-269 ... +400 °C
Approval:	Overflow control per WHG § 19
Data sheet:	LM 31.10

LSO.25

Switching amplifier, for transducer model LSO.06



Output:	1 signal relay, 1 failure relay
Function:	High or low alarm
Time delay:	Up to 8 s
Voltage supply:	AC 24/115/120/230 V DC 24 V
Approval:	Overflow control per WHG § 19
Data sheet:	LM 31.20

Other versions on request.

Submersible pressure transmitters

Submersible pressure transmitters are available in a wide range of different versions for level measurement on open and closed vessels, tanks, drinking water wells, deep wells and wastewater plants.

LS-10

Standard version

Accuracy (± % of span): 0.5	
Measuring range:	0 … 0.25 to 0 … 10 bar relative
Data sheet:	PE 81.55

IL-10

Intrinsically safe

Accuracy (± % of span): 0.25 or 0.5	
Measuring range:	0 … 0.1 to 0 … 25 bar relative
Special feature:	■ Hastelloy design (optional) ■ Highly resistive FEP cable (optional)
Data sheet:	PE 81.23

LH-20

High performance

Non-linearity (± % of span): ≤ 0.2 (optional 0.1)	
Measuring range:	■ 0 ... 0.1 to 0 ... 25 bar relative ■ 0 ... 1.6 to 0 ... 25 bar absolute
Special feature:	■ Slender design ■ Adjustable turndown (optional) ■ Resistant against the harshest environmental conditions ■ Reliable and secure by double-sealed design ■ Titanium case for especially high resistance (optional)
Data sheet:	PE 81.56

Individual requirements demand tailor-made solutions

Whether particularly large or highly precise - level measurement is our passion

WIKA is the world's market leader in pressure, temperature and level measurement. Working together with our customers, we develop comprehensive solutions on the basis of our high-quality measuring instrument components, with the solutions ultimately being integrated in the business processes.

Since 2008, WIKA has had a wide range of level measuring instruments available for temperatures up to 450 °C or pressure ranges up to 400 bar. Most of the developments are the result of individual solutions for a wide range of different applications in the chemical and pharmaceutical industries, offshore and mineral oil industries, ship-building, machine and plant construction, the food industry, water treatment plants and to an ever increasing extent for environmental protection technology.

Our qualified employees are always dedicated to finding the solution to customer-specific problems. The latest production techniques, no-compromise quality management as well as national and international approvals are further pre-requisites for our company's good name.

Accessories

Transmitter

- Compact design
- Simple mounting
- High accuracy (0.05 %)
- EMC resistant
- EEx ia IIC variant available

Limit value signal transmitter

- 1 or 2 limit values act on 2 output relays
- Test jacks for switch point (limit value/actual value)
- High or low alarm can be set
- Hysteresis from 0 ... 60 % of measuring range can be set
- EMC per NAMUR NE21

Transmitter indicator

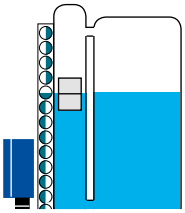
- Compact design
- Simple mounting
- High accuracy (output 0.2 %, input 0.05 %)
- EMC resistant
- Field case IP 65 available

Contact protection relay

- 2-channel
- 1 potential-free relay output per channel
- Switching state indication (yellow LED)
- Effective direction reversible
- Cable break monitoring (red LED)
- Control circuits Ex ia

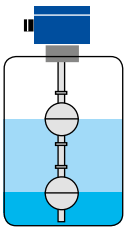
Other versions on request.

Bypass level indicator



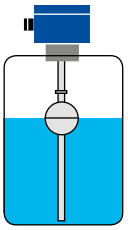
In a communicating bypass chamber mounted to the side of a vessel a float moves with the level of the medium to be measured. The magnetic field of the radial-symmetric magnet system positioned in the float at submersion height activates the magnetic roller indicator attached to the outside of the bypass chamber as well as the switching and measuring elements.

Magnetic float switch



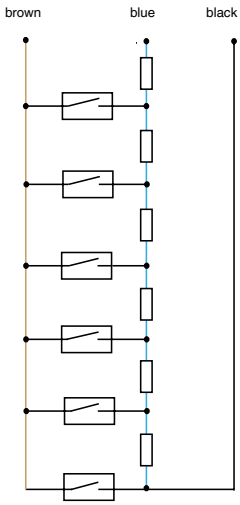
A float with a built-in magnetic system moves with the level of the medium to be measured on a guide tube which has one or more reed switch contacts built into it. The magnet actuates the contacts at the pre-set switching heights and thus allows individual levels to be monitored. The simple and tried-and-trusted principle of operation is suitable for a very wide range of applications.
Works independently of foaming, conductivity, dielelectric constant pressure, vacuum, temperature, vapours, condensation, bubble formation, boiling effects and vibrations.

Level sensor

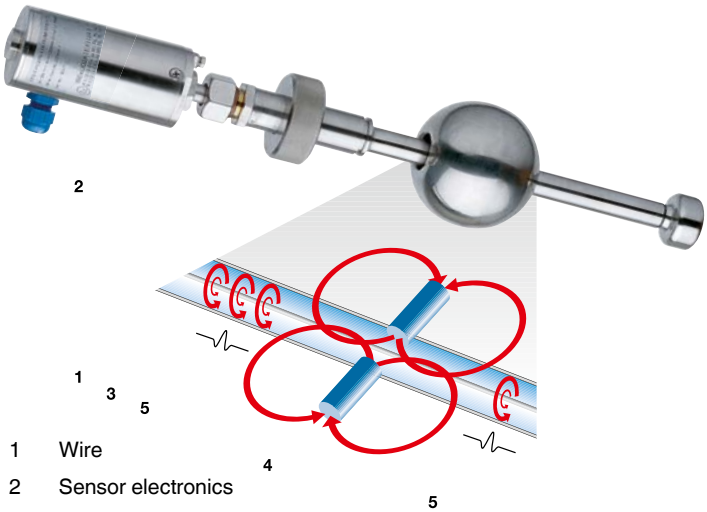


These level sensors work on the float principle with magnetic transmission.
The float's magnetic system actuates a resistance measuring chain that corresponds to a 3-wire potentiometer circuit in the guide tube.
The measurement voltage generated by this is proportional to the fill level and finely-stepped as a result of the contact separation of the measuring chain and is thus virtually continuous. Resolutions between 5 and 18 mm are available depending on the requirements.

Internal circuit diagram
Resistance measuring chain



Magnetostrictive level measurement



1 Wire
2 Sensor electronics
3 Magnetic field
4 Magnet
5 Torsional wave

These level sensors are used as measured value pick-ups for the continuous recording of levels, and are based on determining the position of a magnetic float according to the magnetostrictive principle.

The measuring process is triggered by a current impulse. This current produces a circular magnetic field (3) along a wire (1) fixed in a probe tube made of magnetostrictive material. At the point being measured (level) there is a float with permanent magnets (4) acting as a position transducer. This magnetic field from the float tensions the wire. The superposition of these two magnetic fields triggers a mechanical wave (5) in the wire. This is converted into an electrical signal at the end of the wire in the sensor housing (2) by a piezoceramic converter. The measured propagation delay enables the origination point, and thus the float position, to be determined with high accuracy.

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
Bul. „Al. Stamboliiski" 205
1309 Sofia
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 132-406
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 Wloclawek
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.
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 Ölcme Cihazlari
Ith. Ihr. ve Tic. Ltd. Sti.
Bayraktar Bulvari 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 Corporation
Lawrenceville, GA 30043
Tel. (+1) 770 5138200
Fax: (+1) 770 3385118
E-mail: info@wika.com
www.wika.com

WIKA Process Solutions, LP.
950 Hall Court
Deer Park, TX 77536
Tel. (+1) 713-475 0022
Fax: (+1) 713-475 0011
E-mail: info@wikahouston.com
www.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

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

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 - Egypt.
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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