

Energy
Chemical / petrochemical
Oil & gas
Water / wastewater

Pressure gauges in the process industry



WIKAI

Part of your business

Our knowledge for your success



Alexander Wiegand,
Chairman and CEO, WIKA

Part of your business

WIKA is a global market leader in pressure, temperature and level measurement technology, with an annual turnover of over 700 million euros. Working together with our customers, we develop comprehensive solutions based on our high-quality measurement technology components, with the solutions ultimately being integrated into their business processes.

Excellence in technology and service

Our leading position in the world market is based on various factors: As a family-run company with a rich tradition founded in 1946, we have a great wealth of experience. With currently over 7,300 highly qualified and motivated employees, we have an immense knowledge pool and strong capability. Furthermore, there is our consistent dedication to quality in service and technology. More than 500 experienced sales experts ensure that our customers are advised individually and competently right from the beginning.

Global player for mechanical pressure measuring instruments



Presence in over 80 countries

Think global, act local: WKA is represented around the world by numerous wholly-owned subsidiaries and other sales agencies. And because we are local, we understand the relevant country-specific requirements, standards and applications. This is how we ensure individual support to our customers.

This makes us unique

- Global production sites
- Qualified technological know-how
- Unique breadth and depth of products
- Practical expertise in manufacturing processes
- Perfected lean management
- Customer-focused consulting and service

Quality made by WIKA

Global production sites

The high-tech production in our owned modern production facilities (Germany, Brazil, China, India, Poland, Switzerland, South Africa and USA) is the best guarantee for short delivery times throughout the world. It also enables a high flexibility for country or customer-specific special features. WIKA also stands for excellent quality:

Since 1994 the quality management system has been certified to ISO 9001. The effectiveness of the quality management system is regularly evaluated and improved upon through internal and external audits. Through WIKA's corporate quality standards, uniform and effective worldwide, we set the benchmark here.

Qualified technological know-how

The three resilient pressure element technologies (with Bourdon tube, diaphragm element or capsule element measuring systems) have been developed, qualified and manufactured by WIKA themselves. Equally important for a reliable measured value display is the movement, which converts the spring travel into an angle of rotation. Our "Swiss Movement" is not only as precise as a Swiss watch movement, but they are also especially robust and durable.

These elementary assemblies are the perfect basis for the development of new products. When the product design is defined, the production line is also planned and implemented within WIKA's equipment construction. Finally, the product and process development is extensively qualified within our own test laboratory. Many of WIKA's internal test standards are even specified to higher levels than, for example, the European basic standard EN 837.

Unique breadth and depth of products

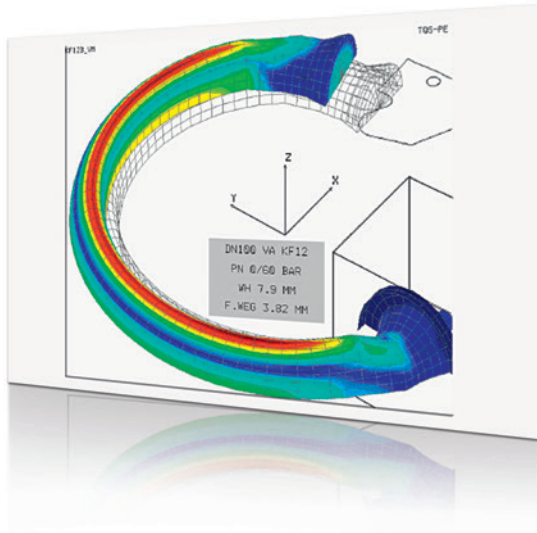
WIKA's indicating pressure measuring instruments for relative, absolute and differential pressure have been proven millions of times over. For the various requirements in process instrumentation, pressure elements in stainless steel or special materials are available. Accepted around the world, a variety of measuring ranges, process connections,

approvals, nominal sizes, safety versions, high overpressure-safety measuring elements or liquid fillings for critical applications are a guarantee for the best measuring point design. The ideal extension to this is the comprehensive accessories programme which includes pressure-gauge valves, stop-cocks, syphons, adapters and much more.



WIKA offers a large variety of measuring instruments for the process industry

Benefit from our many years of experience



Practical expertise in manufacturing processes

Manufacturing processes and procedures at WIKA are based on many years of experience. This technical expertise in processes is typically documented within process control plans as well as operating procedures and work instructions. New or modified processes are evaluated with regard to performance and quality and released for manufacturing by process sign-offs.

Core processes within the pressure gauge production are, for example, welding with subsequent 100% leak test as well as a 100% calibration and adjustment of the instruments. It is not only the processes that are clearly defined, but also the employees who are appropriately trained. Here, WIKA has placed a high value on the internal training in the "Welding Academy" and the "Adjustment Academy".

Perfected lean management

Production processes are designed and continuously improved in accordance with the WIKA Production System (WPS), based on the KAIZEN philosophy. The environment and energy programme is also refined continuously within the meaning of "continuous improvement". Complex problems are dealt with in a structured way by in-house Black Belts using the Six-Sigma Method, thus ensuring lasting

solutions. Through the WPS, we pursue the objective of improving the quality of the products and processes, and thus to achieve the highest possible customer satisfaction through the best quality, the highest delivery reliability as well as attractive delivery times and prices. Customer orientation is at the centre of all our efforts at WIKA.

Customer-focused consulting and service

Our sales service not only offers you standard products, but also our capabilities in consulting on complete measuring assemblies. As a reliable partner in the contractor business, we can support you in all phases of a project, from planning, through execution and implementation of the project, to the acceptance tests, logistics solutions, on-site support and

after-sales service. Also, in calibration technology we offer a comprehensive range of services through our subsidiaries worldwide, which are accredited to the country-specific requirements – on-site service of your instruments, calibration equipment as well as consultancy and training in all aspects of calibration.

7 selection criteria lead you to the right standard product ...

1

2

3

Model	Type of pressure			Scale range				Aggregate state of the medium		
	Absolute pressure	Relative pressure	Differential pressure	< 16 mbar	≤ 0.6 bar	≤ 40 bar	≤ 1,600 bar	Gas or vapour	Liquid with low viscosity	Liquid with high viscosity
232.50	○	●	○	○	○	●	●	●	●	○
232.30	○	●	○	○	○	●	●	●	●	○
432.50	○	●	○	○	●	●	○	●	●	●
632.50	○	●	○	●	●	○	○	●	○	○
532.51	●	○	○	○	●	●	○	●	●	○
732.51	○	○	●	○	●	●	○	●	●	○
732.14	○	○	●	○	●	●	○	●	●	○

- possible
- not possible



Model 232.50

The first choice for scale ranges from 0.6 bar



Model 232.30

For the highest safety category S3 in accordance with EN 837



Model 432.50

For low pressure ranges, high overpressure safety, critical media

4

5

6

7

Materials of wetted parts			Indication accuracy				Nominal size			Special features		
Stainless steel	Monel	Special materials	0.6 %	1.0 %	1.6 %	2.5 %	63 mm	100 mm	160 mm	Safety version in accordance with EN 837, category S3	Liquid filling	Increased overpressure safety
●	●	○	○	●	●	○	●	●	●	○	●	○
●	●	○	○	●	●	○	●	●	●	●	●	○
●	●	●	●	●	●	●	○	●	●	●	●	●
●	○	○	○	●	●	○	●	●	●	○	●	○
●	●	○	●	●	●	●	○	●	●	●	●	●
●	○	○	○	○	●	○	○	●	●	●	●	○
●	○	●	○	○	●	○	○	●	●	○	●	●



Model 632.50

For very low pressure ranges



Model 532.51 – 532.54

Absolute pressure measurement



Model 732.51

Differential pressure with fully welded media chamber



Model 732.14

Differential pressure with the highest overpressure safety

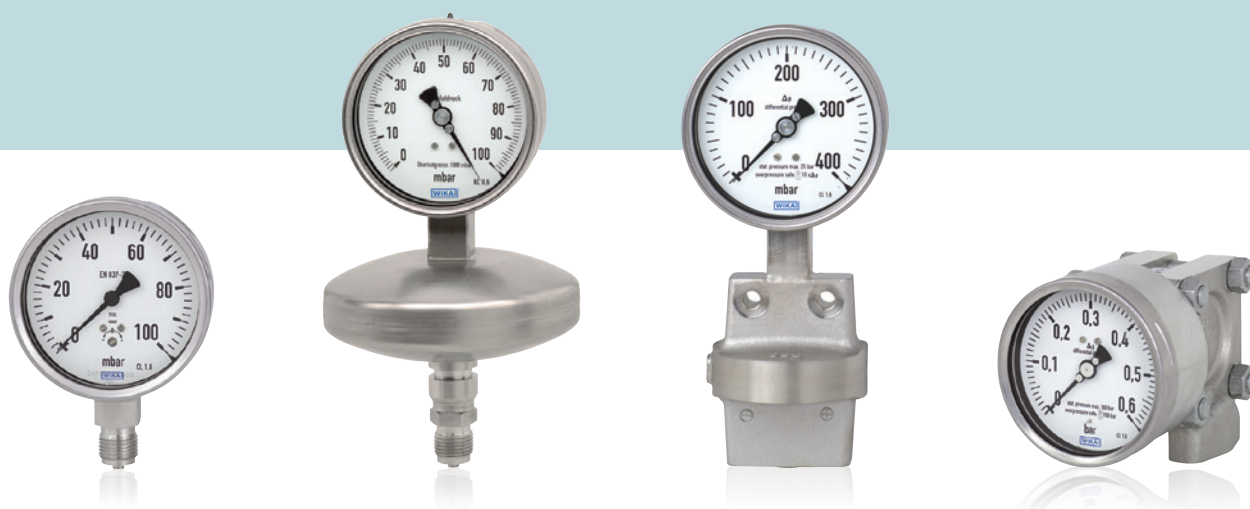
The products in detail

These measuring instruments for the process industry are manufactured completely from stainless steel for increased corrosion resistance. They are developed, qualified and process-monitored in production in accordance with the EN 837 standard. The core components are WIKA's internally developed measuring systems and the Swiss precision movement. For harsh operating conditions, all instruments are also available with liquid filling.

All instruments are also available with integrated switch contacts or transmitters. Thus, not only does a measuring point provide an on-site display without the need for a power supply, but also it provides an electrical output signal for monitoring or control.



Mechanical version	Model 232.50	Model 232.30	Model 432.50	
Type of pressure	Relative pressure	Relative pressure	Relative pressure	
Scale range	0 ... 0.6 to 0 ... 1,600 bar	0 ... 0.6 to 0 ... 1,600 bar	0 ... 16 mbar to 0 ... 25 bar	
Medium	<ul style="list-style-type: none"> ■ Gaseous ■ Liquid ■ Corrosive ■ Aggressive 	<ul style="list-style-type: none"> ■ Gaseous ■ Liquid ■ Corrosive ■ Aggressive 	<ul style="list-style-type: none"> ■ Gaseous ■ Liquid ■ Corrosive ■ Aggressive ■ Highly viscous ■ Crystallising 	
Nominal size [mm]	63, 100, 160	63, 100, 160	100, 160	
Accuracy class	1.6 / 1.0	1.6 / 1.0	1.6 / 2.5 optional 0.6 / 1.0	
Safety version	Category S1 in accordance with EN 837	Category S3 in accordance with EN 837	Category S1 in accordance with EN 837	
Overpressure safety	NS 63 <ul style="list-style-type: none"> ■ Full scale value NS 100, 160 <ul style="list-style-type: none"> ■ 1.3 x full scale value 	NS 63 <ul style="list-style-type: none"> ■ Full scale value NS 100, 160 <ul style="list-style-type: none"> ■ 1.3 x full scale value 	5 x full scale value, max. 40 bar, optional 10 x full scale value	
Mechatronic version	Model PGS23	Model PGS23 Model PGT23	Model PGS43 Model PGT43	



	Model 632.50	Models 532.51, 532.52, 532.53, 532.54	Model 732.51	Model 732.14
	Relative pressure	Absolute pressure	Differential pressure	Differential pressure
	0 ... 2.5 to 0 ... 600 mbar	0 ... 25 mbar to 0 ... 25 bar	0 ... 16 mbar to 0 ... 25 bar	0 ... 60 mbar to 0 ... 40 bar
	<ul style="list-style-type: none"> ■ Gaseous ■ Dry ■ Corrosive ■ Aggressive 	<ul style="list-style-type: none"> ■ Gaseous ■ Liquid ■ Corrosive ■ Aggressive ■ Highly viscous ■ Crystallising 	<ul style="list-style-type: none"> ■ Gaseous ■ Liquid ■ Corrosive ■ Aggressive 	<ul style="list-style-type: none"> ■ Gaseous ■ Liquid ■ Corrosive ■ Viscous ■ Aggressive
	63, 100, 160	100, 160	100, 160	100, 160
	1.6 optional 1.0	0.6 / 1.0 / 1.6 / 2.5	1.6	1.6 / 2.5
	Category S1 in accordance with EN 837	Category S1 in accordance with EN 837	Category S1 in accordance with EN 837	
	Full scale value	max. 25 bar	max. 40 bar	40, 100, 250 or 400 bar
	Model 632.50 with 8xx Model PGT63HP	Model 532.53 with 8xx Model APGT43	Model DPGS43 Model DPGT43	Model DPGS43HP Model DPGT43HP

You can find many more products in the product reviews “Mechanical pressure measuring instruments” and “Mechatronic pressure measuring instruments” at www.wika.com.

Mechatronic versions

Pressure gauges with electrical output signal

intelliGAUGE®

A pressure gauge with an electrical output signal from the intelliGAUGE series combines all the advantages of a local display, without the need for a power supply, an electrical signal transmission for a modern measured value registration.

A magnet on the pointer shaft rotates proportionally to the instrument pointer as a direct linear function of the process pressure. The electronics positioned opposite the magnet register the rotary motion of the magnet. A magnetic-field-dependent sensor picks up this change on the electronic side, contact-free, wear-free and without influence on the pressure element. The sensor signal, proportional to the deflection, is converted to an electrical output signal via an amplifier. Patent applied for, among others European Patent No. EP 06113003.



Pressure gauges with switch contacts

switchGAUGE

Switch contacts built into mechanical pressure measuring instruments close or open circuits depending on the process pressure. They can be used for various monitoring functions when a measured value either falls below or exceeds a preset value. Switch contacts are fitted behind the dial and can be set over the entire scale range using the set pointer. The instrument pointer (actual value pointer) moves freely across the entire scale range, independent of the setting. The contacts can be adjusted individually, using a removable adjustment key in the window.



For general applications

Magnetic snap-action contact



Model 821

For hazardous areas

Inductive contact



Model 831

For PLCs

Electronic contact



Model 830 E

For general applications and PLCs

Reed contact



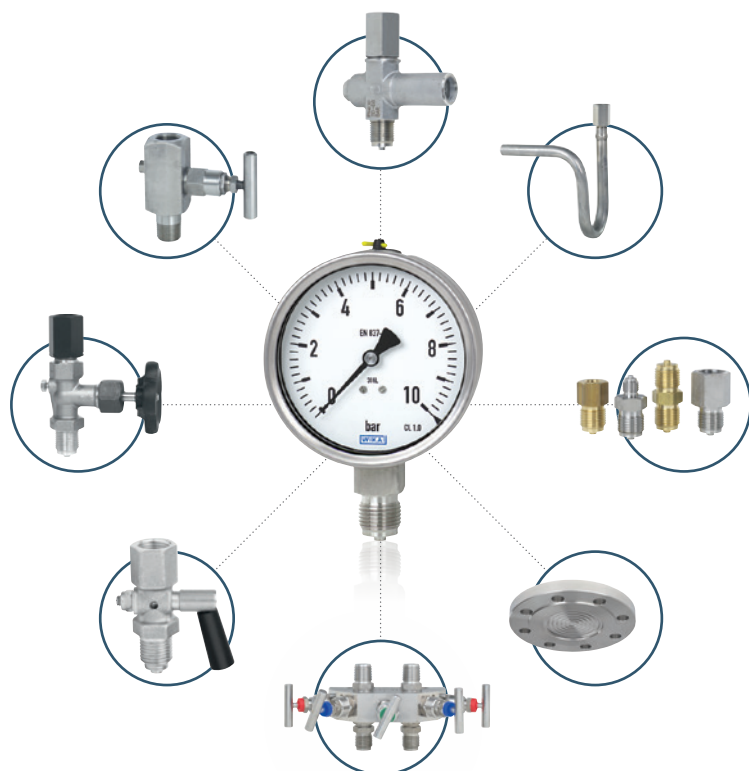
Model 851

Additional services

For all pressure measuring instruments, we offer you a variety of options, approvals, certificates and a comprehensive selection of mechanical accessories – also as a complete measuring system with fitted diaphragm seal or as a “hook-up”!

- Liquid filling
- Special materials such as Monel, Hastelloy, PTFE, nickel, tantalum, titanium, silver
- Various assembly solutions (e.g. panel mounting flange)
- 2.2 test report per EN 10204 (e.g. state-of-the-art manufacturing, material proof, indication accuracy)
- 3.1 inspection certificate per EN 10204 (e.g. material proof for wetted metallic parts, indication accuracy)
- Approvals such as GOST, NACE, DVGW, Vd TÜV and many others
- CE conformity (ATEX, PED, EMC, LVD)
- Accessories such as shut-off valves, overpressure protectors, etc.
- Diaphragm seal mounting

Examples



Assembly



“Hook-up”

Diaphragm seal mounting

You can find further information here.



WIKA worldwide

Europe

Austria
WIKA Messgerätevertrieb
Ursula Wiegand GmbH & Co. KG
Perfektastr. 83
1230 Vienna
Tel. +43 1 8691631
Fax: +43 1 8691634
info@wika.at
www.wika.at

Belarus
WIKA Belarus
Ul. Zaharova 50B, Office 3H
220088 Minsk
Tel. +375 17 2945711
Fax: +375 17 2945711
info@wika.by
www.wika.by

Benelux
WIKA Benelux
Industrial estate De Berk
Newtonweg 12
6101 WX Echt
Tel. +31 475 535500
Fax: +31 475 535446
info@wika.nl
www.wika.nl

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

Croatia
WIKA Croatia d.o.o.
Hrastovicka 19
10250 Zagreb-Lucko
Tel. +385 1 6531-034
Fax: +385 1 6531-357
info@wika.hr
www.wika.hr

Finland
WIKA Finland Oy
Melkonkatu 24
00210 Helsinki
Tel. +358 9 682492-0
Fax: +358 9 682492-70
info@wika.fi
www.wika.fi

France
WIKA Instruments s.a.r.l.
Parc d'Affaires des Bellevues
8 rue Rosa Luxembourg
95610 Eragny-sur-Oise
Tel. +33 1 343084-84
Fax: +33 1 343084-94
info@wika.fr
www.wika.fr

Germany
WIKA Alexander Wiegand SE & Co. KG
Alexander-Wiegand-Str. 30
63911 Klingenberg
Tel. +49 9372 132-0
Fax: +49 9372 132-406
info@wika.de
www.wika.de

Italy
WIKA Italia S.r.l. & C. S.a.s.
Via G. Marconi 8
20020 Arese (Milano)
Tel. +39 02 93861-1
Fax: +39 02 93861-74
info@wika.it
www.wika.it

Poland
WIKA Polska spółka z ograniczoną
odpowiedzialnością sp. k.
Ul. Legska 29/35
87-800 Wloclawek
Tel. +48 54 230110-0
Fax: +48 54 230110-1
info@wikapolska.pl
www.wikapolska.pl

Romania
WIKA Instruments Romania S.R.L.
050897 Bucuresti
Calea Rahovei Nr. 266-268
Corp 61, Etaj 1
Tel. +40 21 4048327
Fax: +40 21 4563137
m.anghel@wika.ro
www.wika.ro

Russia
ZAO WIKA MERA
Wjatskaya Str. 27, Building 17
Office 205/206
127015 Moscow
Tel. +7 495-648018-0
Fax: +7 495-648018-1
info@wika.ru
www.wika.ru

Serbia
WIKA Merna Tehnika d.o.o.
Sime Solaje 15
11060 Beograd
Tel. +381 11 2763722
Fax: +381 11 753674
info@wika.rs
www.wika.rs

Spain
Instrumentos WIKA S.A.U.
C/Josep Carner, 11-17
08205 Sabadell Barcelona
Tel. +34 933 9386-30
Fax: +34 933 9386-66
info@wika.es
www.wika.es

Switzerland
MANOMETER AG
Industriestrasse 11
6285 Hitzkirch
Tel. +41 41 91972-72
Fax: +41 41 91972-73
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 Yukari Dudullu - Istanbul
Tel. +90 216 41590-66
Fax: +90 216 41590-97
info@wika.com.tr
www.wika.com.tr

Ukraine
WIKA Prylad
M. Raskovoy Str. 11, A
PO 200
02660 Kyiv
Tel. +38 044 4968380
Fax: +38 044 4968380
info@wika.ua
www.wika.ua

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

North America

Canada
WIKA Instruments Ltd.
Head Office
3103 Parsons Road
Edmonton, Alberta, T6N 1C8
Tel. +1 780 4637035
Fax: +1 780 4620017
info@wika.ca
www.wika.ca

Mexico
Instrumentos WIKA Mexico S.A. de C.V.
Viena 20 Ofna 301
Col. Juarez, Del. Cuauhtemoc
06600 Mexico D.F.
Tel. +52 55 50205300
Fax: +52 55 50205300
ventas@wika.com
www.wika.com.mx

USA
WIKA Instrument, LP
1000 Wiegand Boulevard
Lawrenceville, GA 30043
Tel. +1 770 5138200
Fax: +1 770 3385118
info@wika.com
www.wika.com

WIKA Process Solutions, LP
950 Hall Court
Deer Park, TX 77536
Tel. +1 713 47500-22
Fax: +1 713 47500-11
info@wikahouston.com
www.wika.com

Mensor Corporation
201 Barnes Drive
San Marcos, TX 78666
Tel. +1 512 396-4200
Fax: +1 512 396-1820
sales@mensor.com
www.mensor.com

Latin America

Argentina
WIKA Argentina S.A.
Gral. Lavalle 3568
(B1603AUH) Villa Martelli
Buenos Aires
Tel. +54 11 47301800
Fax: +54 11 47610050
info@wika.com.ar
www.wika.com.ar

Brazil
WIKA do Brasil Ind. e Com. Ltda.
Av. Ursula Wiegand, 03
CEP 18560-000 Iperó - SP
Tel. +55 15 34599700
Fax: +55 15 32661650
vendas@wika.de
www.wika.com.br

Chile
WIKA Chile S.p.A.
Av. Coronel Pereira 72
Oficina 101
Las Condes - Santiago de Chile
Tel. +56 2 365-1719
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
info@wika.co

Asia

Azerbaijan
WIKA Azerbaijan LLC
Caspian Business Center
9th floor 40 J.Jabbarli str.
AZ1065 Baku
Tel. +994 12 49704-61
Fax: +994 12 49704-62
info@wika.az

China
WIKA Instrumentation Suzhou Co., Ltd.
81, Ta Yuan Road, SND
Village Kesnand, Waghohi
Suzhou 215011
Tel. +86 512 6878 8000
Fax: +86 512 6809 2321
info@wika.cn
www.wika.com.cn

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

Iran
WIKA Instrumentation Pars Kish
(KFZ) Ltd.
Apt. 307, 3rd Floor
8-12 Vanak St., Vanak Sq., Tehran
Tel. +98 21 88206-596
Fax: +98 21 88206-623
info@wika.ir
www.wika.ir

Japan
WIKA Japan K. K.
MG Shibaura Bldg. 6F
1-8-4, Shibaura, Minato-ku
Tokyo 105-0023
Tel. +81 3 5439-6673
Fax: +81 3 5439-6674
info@wika.co.jp
www.wika.co.jp

Kazakhstan
TOO WIKA Kazakhstan
Raimbekstr. 169, 3rd floor
050050 Almaty
Tel. +7 727 2330848
Fax: +7 727 2789905
info@wika.kz
www.wika.kz

Korea
WIKA Korea Ltd.
569-21 Gasan-dong, Kurncheon-gu
Seoul 153-771
Tel. +82 2 86905-05
Fax: +82 2 86905-25
info@wika.co.kr
www.wika.co.kr

Malaysia
WIKA Instrumentation M Sdn. Bhd.
No. 27 & 29 Jalan Puteri 5/20
Bandar Puteri Puchong
47100 Puchong, Selangor
Tel. +60 3 806310-80
Fax: +60 3 806310-70
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 1600
Tel. +63 2 234-1270
Fax: +63 2 695-9043
info@wika.com.ph
www.wika.com.ph

Singapore
WIKA Instrumentation Pte. Ltd.
13 Kian Teck Crescent
628878 Singapore
Tel. +65 6844 5506
Fax: +65 6844 5507
info@wika.com.sg
www.wika.com.sg

Taiwan
WIKA Instrumentation Taiwan Ltd.
Min-Tsu Road, Pinjen
32451 Taoyuan
Tel. +886 3 420 6052
Fax: +886 3 490 0080
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 32668-73
Fax: +66 2 32668-74
info@wika.co.th
www.wika.co.th

Africa / Middle East

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

Namibia
WIKA Instruments Namibia Pty Ltd.
P.O. Box 31263
Pionierspark
Windhoek
Tel. +26 4 61238811
Fax: +26 4 61233403
info@wika.com.na
www.wika.com.na

South Africa
WIKA Instruments Pty. Ltd.
Chilvers Street, Denver
Johannesburg, 2094
Tel. +27 11 62100-00
Fax: +27 11 62100-59
sales@wika.co.za
www.wika.co.za

United Arab Emirates
WIKA Middle East FZE
Warehouse No. RB08JB02
P.O. Box 17492
Jebel Ali, Dubai
Tel. +971 4 883-9090
Fax: +971 4 883-9198
info@wika.ae
www.wika.ae

Australia

Australia
WIKA Australia Pty. Ltd.
Unit K, 10-16 South Street
Rydalmere, NSW 2116
Tel. +61 2 88455222
Fax: +61 2 96844767
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
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
info@wika.de / www.wika.de



Part of your business