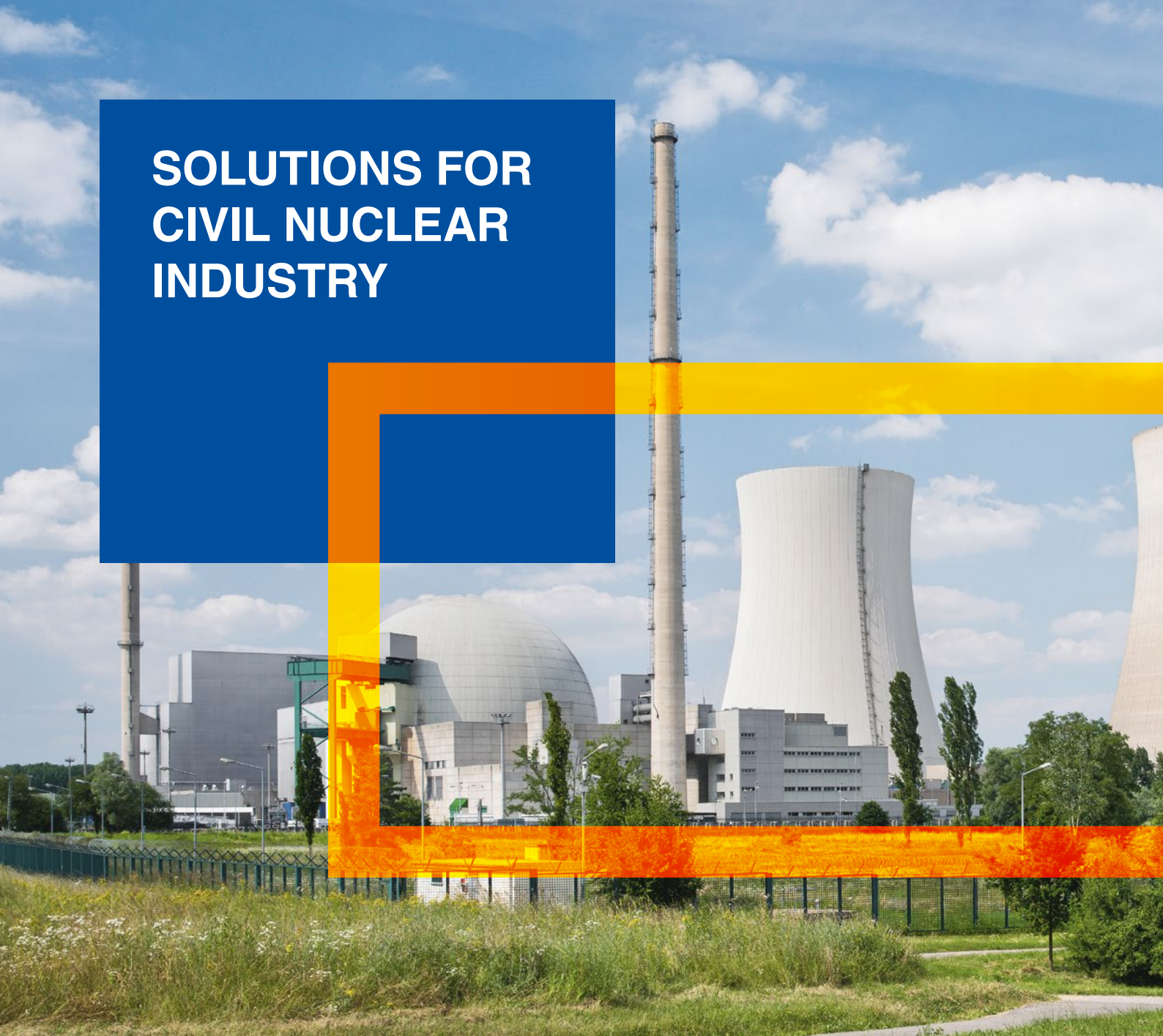




SOLUTIONS FOR CIVIL NUCLEAR INDUSTRY

Measurement safety,
at every stage.



Smart in sensing

FROM DEVELOPMENT TO DECOMMISSIONING





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MEASUREMENT SOLUTIONS FOR CIVIL NUCLEAR INDUSTRY

**RELIABLE, SAFE,
ALWAYS THERE FOR YOU**

Over the coming years and decades, global electricity demand will rise sharply. Meeting the requirements of industry, data centres and e-mobility will require not only the expansion of renewable energy, but also dependable, base-load power sources which are, at the same time, CO₂-free.

Nuclear power plants play a key role here – while at the same time facing major challenges: regulatory requirements are extremely high, and both new-builds and lifetime extensions of existing plants must remain economically viable. In addition, there is a widespread lack of the in-depth instrumentation expertise needed to ensure safety at all times.

This is where WIKA truly stands out as a versatile partner. With deep technical expertise and proven development experience, we support you from initial design to final decommissioning – delivering measurement solutions, consulting, and services at every stage.

Let's make a difference for your project, together!

Alexander Wiegand
Chairman and CEO, WIKA



”

WIKA supports you at every stage – from development through to decommissioning – with solutions that meet the highest safety requirements.

WIKA in brief

A family business
since 1946

> 11,000 employees

Global service and
distribution

1.3 billion euro turnover

Quality management:
ISO 9001, ISO 19443

SAFE AND RELIABLE

THANKS TO MANY YEARS OF EXPERIENCE

For over 50 years, WIKA has been developing and delivering measurement solutions for core parameters such as pressure, temperature, level, flow and force. Many decades ago, we supported the first nuclear power plants in Germany, initially through consulting, then by supplying the appropriate instrumentation, and after by partnering with them throughout their entire lifecycle.

Today, drawing on our extensive hands-on experience and broad instrumentation expertise, we serve a large number of facilities worldwide.



**Highly-accurate instruments
with long-term reliability**



**Minimal planned downtime and
unplanned shutdowns**



**Low maintenance costs and
minimal calibration effort**



**Support in the development of new
systems**



**Compliance with regulatory
requirements**



**Compatibility with discontinued
systems (obsolescence management)**



Certified products and production

For civil nuclear technology, we offer nuclear-qualified instruments that can be used in new-build projects, but also for the modernisation of existing plants. They meet the highest demands for safety and functionality (1E, K1), have proven themselves in a range of different tests (vibration, irradiation, ageing, LOCA, etc.) and are therefore the optimal solution for many applications.



YOUR PARTNER FROM THE VERY FIRST STEP

**ACCELERATE PLANNING
AND DEVELOPMENT**



WIKA supports you from the very beginning with research and development, providing both technical expertise and hands-on experience. We assist in material specification and advise you on all instrumentation-related aspects across your applications.

We also develop solutions in the context of new technologies such as SMR plants and fusion reactors

– solutions that are functional, reliable, and compliant with regulatory requirements, thereby facilitating and accelerating your approval processes.

By working together, potential challenges and issues can be identified and resolved at an early stage. This reduces development effort, streamlines approval procedures, and avoids time- and cost-intensive redesigns



WE SUPPORT YOUR SMR DEVELOPMENT

Whether for an energy-intensive industrial facility, a data centre, corporate headquarters or a university campus – many locations have a consistently high demand for energy. Small modular reactors (SMRs) are specifically designed for this purpose, providing a reliable and CO₂-neutral power supply within a compact footprint.

Thanks to their modular design, the technology can be optimally tailored to meet specific local requirements.

As safety systems must also meet the high standards of nuclear technology – while at the same time being more compact and flexible in their application – we work with you to develop both safety-classified and non-classified measurement solutions that are perfectly tailored to your modular reactor concept.



Customer-specific solutions

We develop individually optimised solutions together with you, carry out the engineering and support you in the FEED phase. The advantage: solutions that can be implemented exactly as planned and whose components are ideally matched to each other.

SOLUTIONS FROM A SINGLE SOURCE

KEEP PROJECTS LEAN

Following the reactor disaster in Fukushima, safety standards were significantly tightened, along with the requirements for measurement technology solutions and their qualification. Our comprehensive portfolio covers a wide range of measurement parameters – from pressure, temperature, level and flow to force – providing suitable solutions for the majority of relevant measuring points.

The advantage: many applications can be fully implemented using nuclear-qualified instruments from WIKA. This means that even for complex projects, you only need a single partner for measurement technology. As a result, qualification efforts can be consolidated, making project costs easier to manage and the project more cost-efficient overall.



Obsolescence management re-imagined

A major challenge is equipment that was installed decades ago and for which no replacement is available, for example because the manufacturer is no longer active in the market. For such cases, we offer

a dedicated service: Our experts assess the device and ensure continued smooth operation by providing a suitable replacement or reproduction.



Our certificates of conformity

KTA 3505

IEEE 323

IEEE 344

RCC-E

RCC-M

ASME III

NP-87-1

NP-001-97

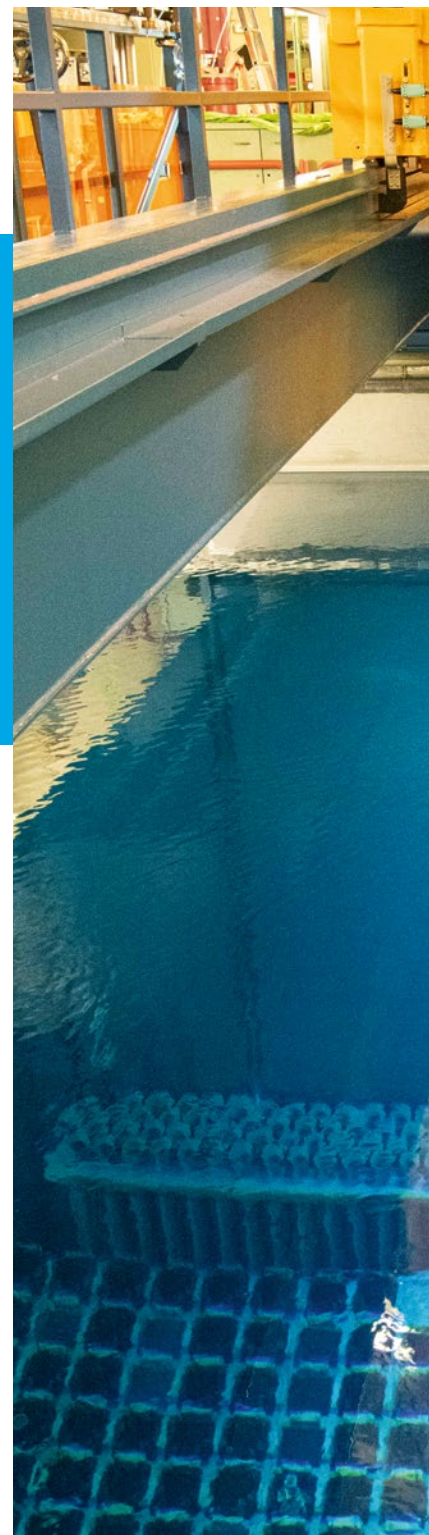
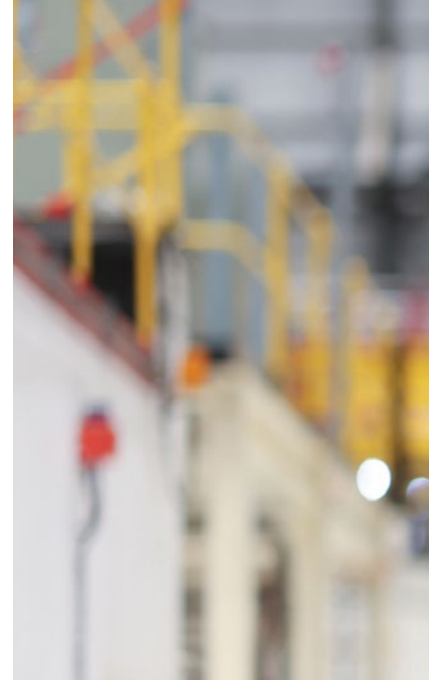
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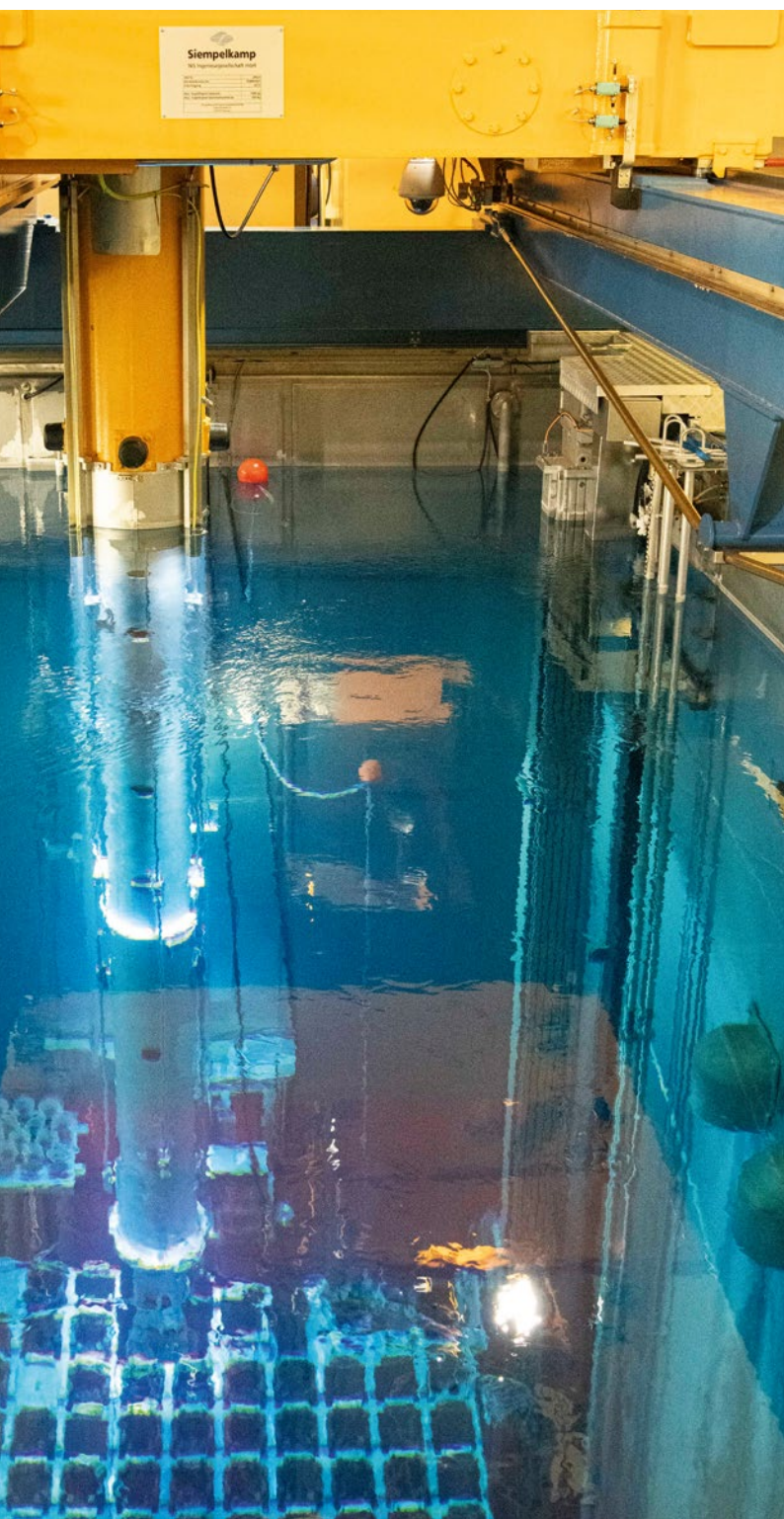


SUSTAINABLE IN OPERATION

BENEFIT FROM LONG-TERM RELIABILITY

Our measurement solutions are designed for maximum safety and reliability. Even over many years and under extreme conditions – from severe vibrations and high temperatures to intense radiation exposure – they demonstrate exceptional durability and long-term stability.





Minimal downtime and long maintenance intervals

Low-maintenance technologies, redundant systems and modern monitoring concepts, such as predictive maintenance, ensure the reliability of our instruments and detect any possible signal drifts immediately. This prevents unplanned downtime and makes the use of our products particularly economically attractive – especially in conjunction with their long, qualified service lives and long calibration cycles.

Continuity of supply

As a family-run company, WIKA is committed to strategically sustainable and, therefore, secure long-term development. In combination with a worldwide network of subsidiaries and production sites, we also ensure continuity of supply in challenging times and thus provide planning security. For our qualified product portfolio, accordingly, we guarantee that instruments and spare parts will still be available for decades to come.

OUR PRODUCTS IN USE

FROM THE REACTOR TO THE COOLING TOWER

Whether safety-classified instrumentation for cooling circuits, turbines and emergency power units or non-classified instruments for applications that are not safety-critical.

Our solutions for the civil nuclear industry – organised under the N-Line – cover a wide range of tasks and requirements and are deployed at numerous points throughout the plant.



Level sensors

Accident-proof level sensors with reed measuring chains for precise, continuous measurement even under LOCA conditions.



Compact temperature switches

Ideal for reliable temperature monitoring under strong vibrations and radiation exposure.



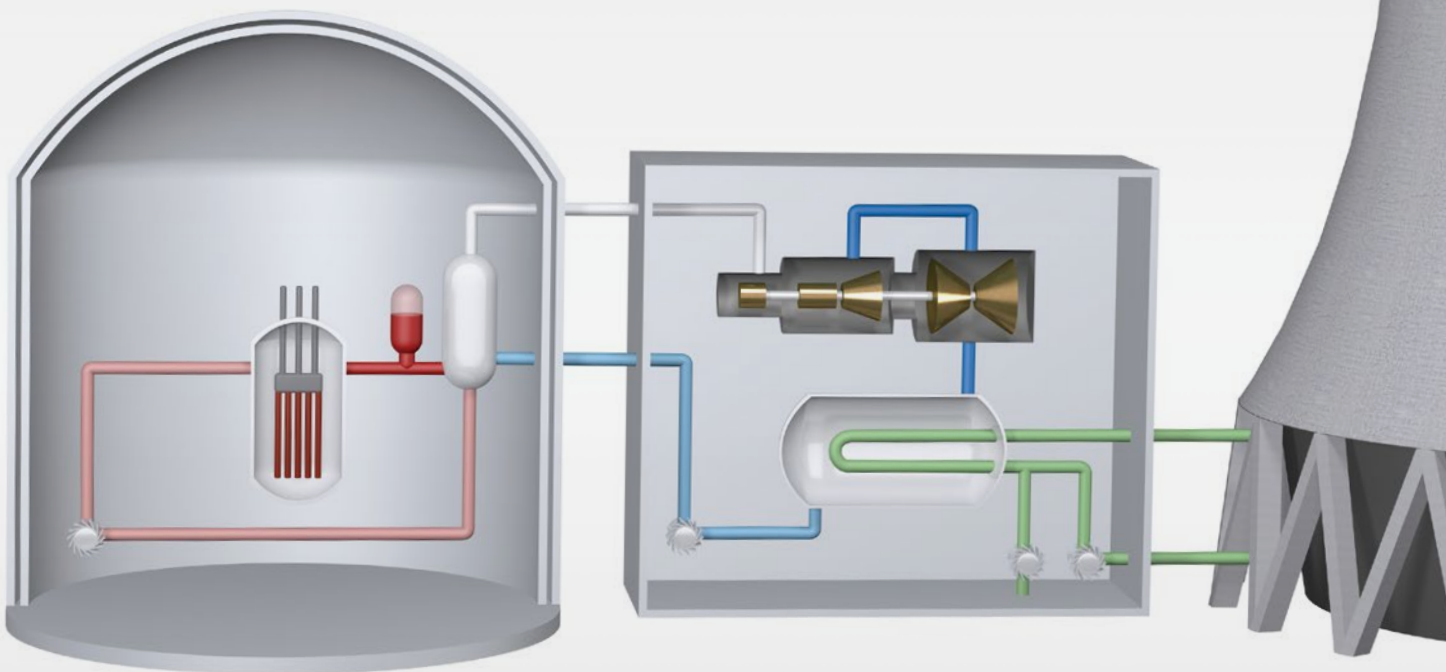
Diaphragm pressure switches

Developed for safety-critical environments with high switching power and high repeatability



Differential pressure gauges

The robust design with full-surface metal design of the measuring element ensures high overload safety at operating pressures up to 650 bar.



Resistance thermometers and thermocouples

Pt100 and type K temperature sensors for extreme ambient conditions with high radiation up to 10 MGy and strong magnetic fields up to 150 mT.



Here you will find our extensive N-Line product portfolio

OUR SERVICES

ALWAYS THERE FOR YOU

For us, partnership goes far beyond simply providing instrumentation. We advise and support you from the very beginning and also take on research and development tasks in the field of measurement technology.

Whether in our ISO 17025 accredited laboratories or directly on site with our mobile service teams – we support you with our calibration activities before installation as well as with periodic testing and maintenance work.



WHAT WE CAN DO FOR YOU



Feasibility studies



Engineering



Customer-specific
solutions and training



Qualification and
documentation



Support during
installation



Tools and fixtures
for transport



Installation and main-
tenance of instruments

Comprehensive in-house testing or in co-operation with certified laboratories

- Dye penetrant test
- Magnetic particles inspection
- Radiography testing
- Hydrostatic pressure test
- Ultrasonic test
- Positive material test
- Calibration

Our calibration laboratories have been accredited for the measurands of pressure and temperature for over 30 years. For more than 10 years, our calibration laboratory has also offered testing for the electrical measurands of DC current, DC voltage, DC resistance and length.

CLOSE TO THE CUSTOMER, ON SITE WORLDWIDE



As an internationally active company, we have subsidiaries in over 50 countries. This enables us to be close to our customers, with experienced engineers and contacts and to understand the local circumstances. At the same time, we have a global network and can thus draw on comprehensive resources.

This guarantees you optimal delivery reliability and expertise – wherever you are. Our products are installed in numerous nuclear power plants in Europe, America, Asia and Africa and ensure lasting safety.



REFERENCE PROJECTS

A selection of our projects in civil nuclear technology:

Pressurised water reactors (PWR)

Akkuyu 1-4 (Türkiye)
Fangchenggang 3-4 (China)
Hinkley Point C 1-2 (United Kingdom)
Angra 3 (Brazil)
Flamanville 3 (France)
Fuqing 1-6 (China)
Leningrad 1-2 (Russia)
Olkiluoto 3 (Finland)

Boiling water reactors (BWR)

Hamaoka 4 (Japan)
Olkiluoto 1-2 (Finland)
Browns Ferry 1-3 (USA)
Oskarshamn 3 (Sweden)
Forsmark 1-3 (Sweden)

Research facilities

ITER (International Thermonuclear
Experimental Reactor) (France)
RJH (Réacteur Jules Horowitz) (France)
CERN (Switzerland, France)

Heavy water reactors (PHWR)

Atucha 1-2 (Argentina)
Kakrapar 3-4 (India)
Kaiga 5-6 (India)

Gas cooled reactor (GCR)

Heysham 1-2 (United Kingdom)

Here you will find the complete listing of
our civil nuclear technology projects:



WIKA worldwide

Europe

Austria
WIKA Messgerätevertrieb
Ursula Wiegand GmbH & Co. KG
Tel. +43 1 8691631
info@wika.at / www.wika.at

Benelux
WIKA Benelux
Tel. +31 475 535500
info@wika.nl / www.wika.nl

Bulgaria
WIKA Bulgaria EOOD
Tel. +359 2 82198-10
info@wika.bg / www.wika.bg

Croatia
WIKA Croatia d.o.o.
Tel. +385 1 6531-034
info@wika.hr / www.wika.hr

Denmark
WIKA Danmark A/S
Tel. +45 4581 9600
info@wika.as / www.wika.as

Finland
WIKA Finland Oy
Tel. +358 9 682492-0
info@wika.fi / www.wika.fi

France
WIKA Instruments s.a.r.l.
Tel. +33 1 71 68 10 00
info@wika.fr / www.wika.fr

Germany
WIKA Alexander Wiegand
SE & Co. KG
Tel. +49 9372 132-0
info@wika.de / www.wika.de

Ireland
WIKA Instruments Ireland Limited
Tel. +35 386 1449 360
info@wika.ie / www.wika.ie

Italy
WIKA Italia S.r.l. & C. S.a.s.
Tel. +39 02 93861-1
info@wika.it / www.wika.it

Poland
WIKA Polska spółka z ograniczoną
odpowiedzialnością sp. k.
Tel. +48 54 230110-0
info@wikapolska.pl
www.wikapolska.pl

Romania
WIKA Instruments Romania S.R.L.
Tel. +40 21 4048327
info@wika.ro / www.wika.ro

Serbia
WIKA Merna Tehnika d.o.o.
Tel. +381 11 2763722
info@wika.rs / www.wika.rs

Spain
Instrumentos WIKA S.A.U.
Tel. +34 933 9386-30
info@wika.es / www.wika.es

Sweden
WIKA Sweden AB
Tel. +46 31 74256-00
info@sini.se
www.sini.se

Switzerland
WIKA Schweiz AG
Tel. +41 41 91972-72
info@wika.ch / www.wika.ch

Türkiye
WIKA Instruments
Endüstriyel Ölçüm Cihazları Tic.
Ltd. Şti.
Tel. +90 216 41590-66
info@wika.com.tr
www.wika.com.tr

Ukraine
TOV WIKA Prylad
Tel. +38 044 496 83 80
info@wika.ua / www.wika.ua

United Kingdom
WIKA Instruments Ltd
Tel. +44 1737 644-008
info@wika.co.uk / www.wika.co.uk

North America

Canada
WIKA Instruments Ltd.
Tel. +1 780 4637035
info@wika.ca / www.wika.ca

USA
WIKA Instrument, LP
Tel. +1 770 5138200
info@wika.com / www.wika.us

Gayesco-WIKA USA, LP
Tel. +1 713 4750022
info@wikahouston.com
www.wika.us

Mensor Corporation
Tel. +1 512 3964200
sales@mensor.com
www.mensor.com

Latin America

Argentina
WIKA Argentina S.A.
Tel. +54 11 5442 0000
ventas@wika.com.ar
www.wika.com.ar

Brazil
WIKA do Brasil Ind. e Com. Ltda.
Tel. +55 15 3459-9700
vendas@wika.com.br
www.wika.com.br

Chile
WIKA Chile S.p.A.
Tel. +56 9 4279 0308
info@wika.cl / www.wika.cl

Colombia
Instrumentos WIKA Colombia S.A.S.
Tel. +57 601 7021347
info@wika.co / www.wika.co

Mexico
Instrumentos WIKA Mexico
S.A. de C.V.
Tel. +52 55 50205300
ventas@wika.com / www.wika.mx

Asia

China
WIKA Instrumentation Suzhou
Co., Ltd.
Tel. +86 512 6878 8000
info@wika.cn / www.wika.com.cn

India
WIKA Instruments India Pvt. Ltd.
Tel. +1800-123-101010
info@wika.co.in / www.wika.co.in

Indonesia
PT WIKA Instruments Indonesia
info@wikaindonesia.id
www.wikaindonesia.id

Japan
WIKA Japan K. K.
Tel. +81 3 5439-6673
info@wika.co.jp / www.wika.co.jp

Kazakhstan
TOO WIKA Kazakhstan
Tel. +7 727 220 80 08
info@wika.kz / www.wika.kz

Korea
WIKA Korea Ltd.
Tel. +82 2 869-0505
info@wika.co.kr / www.wika.co.kr

Malaysia
WIKA Instrumentation (M) Sdn. Bhd.
Tel. +60 3 5590 6666
info@wika.my / www.wika.my

Philippines
WIKA Instruments Philippines Inc.
Tel. +63 2 234-1270
info@wika.ph / www.wika.ph

Singapore
WIKA Instrumentation Pte. Ltd.
Tel. +65 6844 5506
info@wika.sg / www.wika.sg

Taiwan
WIKA Instrumentation Taiwan Ltd.
Tel. +886 3 420 6052
info@wika.tw / www.wika.tw

Thailand
WIKA Instrumentation Corporation
(Thailand) Co., Ltd.
Tel. +66 2 326 6876
info@wika.co.th / www.wika.co.th

Uzbekistan
WIKA Instrumentation FE LLC
Tel. +998 71 205 84 30
info@wika.uz / www.wika.uz

Africa/Middle East

Botswana
WIKA Instruments Botswana (Pty.)
Ltd.
Tel. +267 3110013
info@wika.co.bw / wika.co.bw

Egypt
WIKA Near East Ltd.
Tel. +20 2 240 13130
info@wika.com.eg
www.wika.com.eg

Morocco
WIKA Instruments Morocco
Tel. +212 (0)52209-2954
info@wika.ma
www.wika.ma

Namibia
WIKA Instruments Namibia Pty Ltd.
Tel. +26 4 61238811
info@wika.com.na
www.wika.com.na

Nigeria
WIKA WEST AFRICA LIMITED
Tel. +234 17130019
info@wika.com.ng / www.wika.ng

Saudi Arabia
WIKA Saudi Arabia LLC
Tel. +966 53 555 0874
info@wika.sa / www.wika.sa

South Africa
WIKA Instruments Pty. Ltd.
Tel. +27 11 62100-00
sales@wika.co.za / www.wika.co.za

United Arab Emirates
WIKA Middle East FZE
Tel. +971 4 883-9090
info@wika.ae / www.wika.ae

Australia

Australia
WIKA Australia Pty. Ltd.
Tel. +61 2 88455222
sales@wika.com.au
www.wika.com.au

New Zealand
WIKA Instruments Limited
Tel. +64 9 8479020
info@wika.co.nz / www.wika.co.nz

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

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You can find further
information here!



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www.wika.com