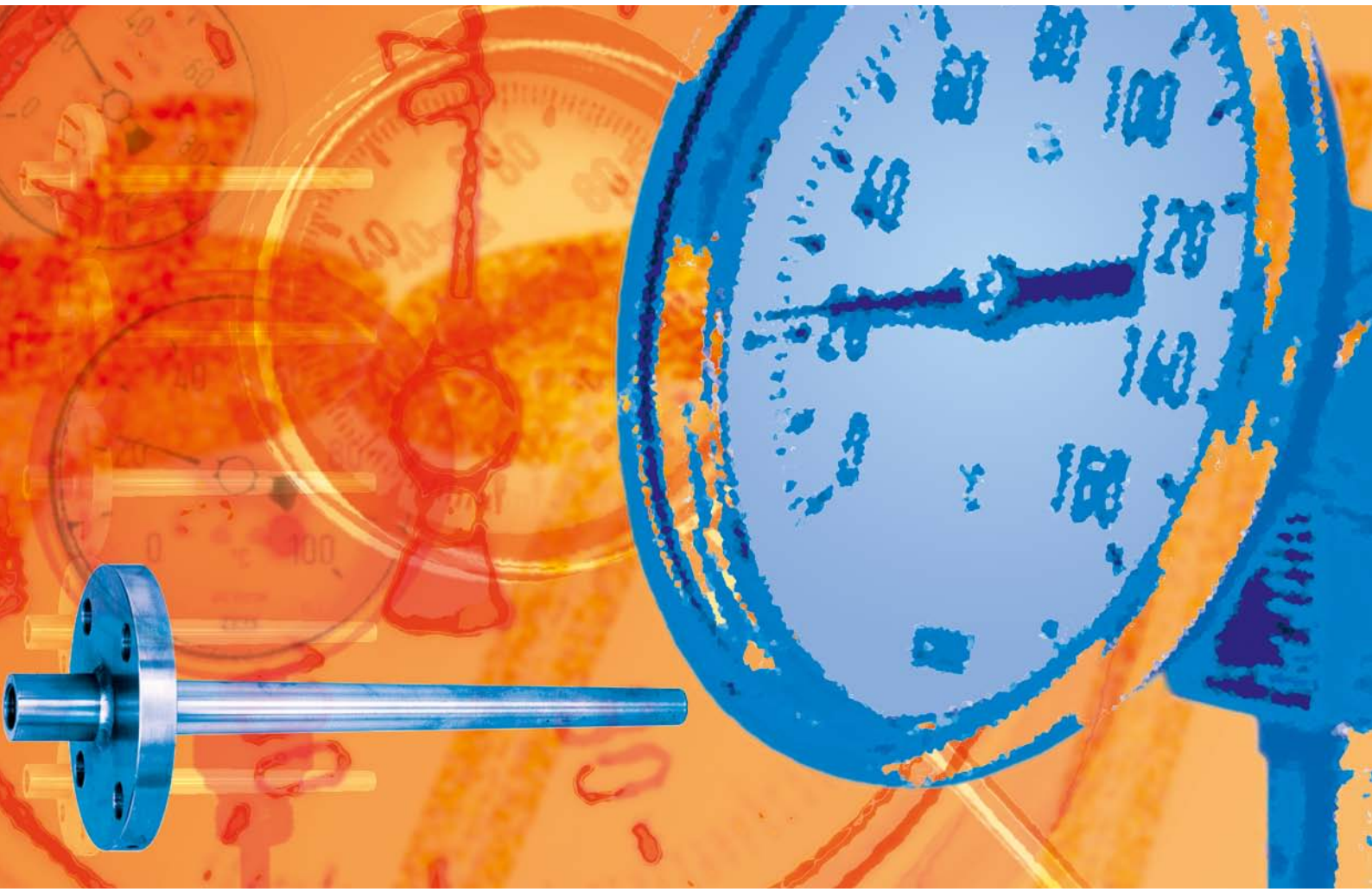
Product review

Mechanical

temperature measuring instruments



WIKA

Part of your business

Contents

WIKA product lines	3
Bimetal thermometers	4
Gas actuated thermometers	6
Expansion thermometers	7
Special products, types of connections	7
Thermowells	8
Technical information	10
Further products for temperature measurement	14
WIKA worldwide	16

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 retroaction to 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 therefore be used at extreme temperatures (- 90 ... +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, 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.

Bimetal thermometers

46

Industrial heating

Nominal size:	50, 63, 80, 100 mm
Scale range:	0 ... 120 °C
Permissible operating pressure at thermowell/stem:	Max. 6 bar
Wetted parts:	Copper alloy
Data sheet:	TM 46.02

48

Refrigeration and air conditioning

Nominal size:	63, 80, 100, 160 mm
Scale range:	-30 ... +120 °C
Wetted parts:	Copper alloy
Data sheet:	TM 48.01

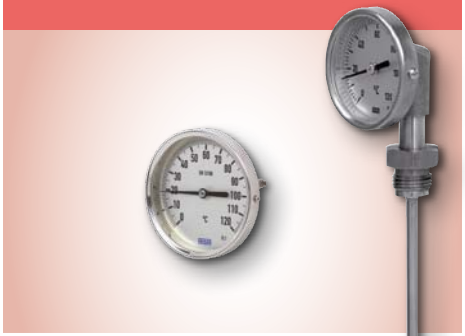
50

Standard version

Nominal size:	63, 80, 100, 160 mm
Scale range:	-30 … +200 °C
Permissible operating pressure at thermowell/stem:	Max. 6 bar
Wetted parts:	Copper alloy
Data sheet:	TM 50.03

52

Industrial series, axial and radial



Nominal size:	25, 33, 40, 50, 63, 80, 100, 160 mm
Scale range:	-30 ... +50 to 0 ... +500 °C
Permissible operating pressure at thermowell/stem:	Max. 25 bar
Wetted parts:	Stainless steel
Data sheet:	TM 52.01

53

Industrial series, axial, adjustable stem dial

Nominal size:	3", 5"
Scale range:	-70 ... +70 to 0 ... +600 °C
Wetted parts:	Stainless steel
Option:	Liquid damping to max. 250 °C (case and sensor)
Data sheet:	TM 53.01

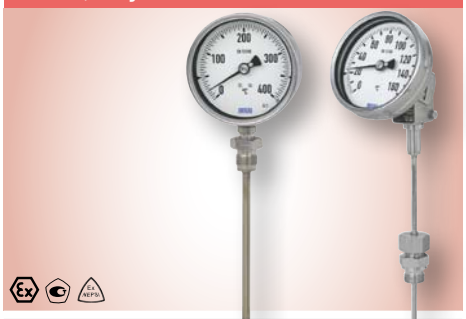
54

Heavy duty series, axial and radial, adjustable stem and dial

Nominal size:	63, 80, 100, 160 mm
Scale range:	-70 ... +70 to 0 ... +600 °C
Wetted parts:	Stainless steel
Option:	Liquid damping to max. 250 °C (case and sensor)
Data sheet:	TM 54.01

55

Stainless steel series, axial and radial, adjustable stem and dial



Nominal size:	63, 100, 160 mm
Scale range:	-70 ... +70 °C to 0 ... +600 °C
Wetted parts:	Stainless steel
Option:	Liquid damping to max. 250 °C (case and sensor)
Data sheet:	TM 55.01

Gas-actuated thermometers

R73, S73, A73

Axial and radial, adjustable stem and dial

Nominal size:	100, 160 mm
Scale range:	-200 ... +50 to 0 ... +700 °C
Wetted parts:	Stainless steel
Option:	■ Liquid damping (case) ■ Contact bulb
Data sheet:	TM 73.01

Q73, F73

With capillary

Nominal size:	100, 160, 144 x 144 mm
Scale range:	-200 ... +50 to 0 ... +700 °C
Wetted parts:	Stainless steel
Option:	■ Armoured or coated capillary (PVC coating) ■ Liquid damping (case) ■ Contact bulb
Data sheet:	TM 73.01

74

For sanitary applications

Nominal size:	100 mm
Scale range:	■ 0 ... 120 or 0 ... 160 °C ■ -20 ... +100 and -30 ... +50 °C
Wetted parts:	Stainless steel 1.4435
Option:	■ Liquid damping (case) ■ Wetted parts with electropolished surface
Data sheet:	TM 74.01

75

Highly vibration resistant

Nominal size:	100 mm
Scale range:	0 ... +700 or -50 ... +650 °C
Wetted parts:	Stainless steel
Option:	Various neck-tube and insertion lengths
Data sheet:	TM 75.01

Expansion thermometers

70

High-quality version

Nominal size:	63, 100, 160 mm
Wetted parts:	Stainless steel
Option:	■ Liquid damping (case) ■ Indication accuracy class 1 ■ With micro switch
Data sheet:	TM 81.01

IFC

Standard version

Nominal size:	60, 80, 100 mm
Wetted parts:	Copper alloy
Option:	■ Square case version ■ Other case materials ■ With micro switch
Data sheet:	TM 80.01

TF58, TF59

Standard version

Nominal size:	58 x 25 mm, 62 x 11 mm
Wetted parts:	Copper alloy
Option:	■ Vertical arrangement ■ Special scales ■ Other case materials
Data sheet:	TM 80.02

Special products, types of connections

32

Machine glass thermometer, V-form

Nominal size:	110, 150, 200 mm
Wetted parts:	Copper alloy
Option:	■ Dual scale °F/°C ■ Other types of connections
Data sheet:	TM 32.02

Compression fittings

Application:	Suitable for thermometers with plain stem (design of connection 1)
Material:	Stainless steel
Operating range:	Max. 600 °C

Double nipple version

Application:	Suitable for thermometers with union nut (design of connection 3)
Material:	Stainless steel
Operating range:	Max. 600 °C

Neck tubes

Material:	Stainless steel
Operating range:	Max. 600 °C

Further information at www.wika.com

Thermowells

TW10

Flanged (solid-machined)

Thermowell form:	Tapered, straight or stepped
Nominal size:	ASME 1 to 4 inch (DIN/EN DN 25 to DN 100)
Pressure rating:	ASME to 2,500 psig (DIN/EN to PN 100)
Data sheet:	TW 95.10, TW 95.11, TW 95.12

TW15

Screw-in (solid machined)

Thermowell form:	Tapered, straight or stepped
Head version:	Hexagon, round with hexagon, or round with spanner flats
Process connection:	½, ¾ or 1 NPT
Data sheet:	TW 95.15

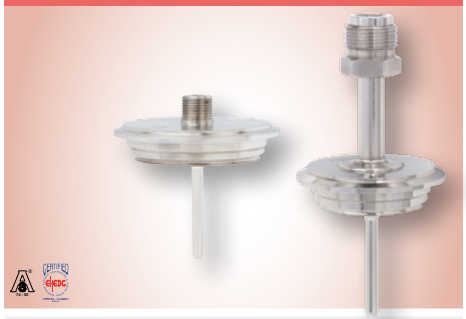
TW20

Socket weld (solid machined)

Thermowell form:	Tapered, straight or stepped
Welding collar diameter:	1.050, 1.315 or 1.900 inch (26.7, 33.4 or 48.3 mm)
Pressure rating:	3,000 or 6,000 psig
Data sheet:	TW 95.20

TW22

Fabricated with flange connection for sanitary applications



Aseptic connection:	■ DIN 11851 ■ DIN 32676 ■ Tri-clamp ■ VARIVENT® ■ BioControl®
Thermowell material:	Stainless steel 1.4435
Data sheet:	TW 95.22

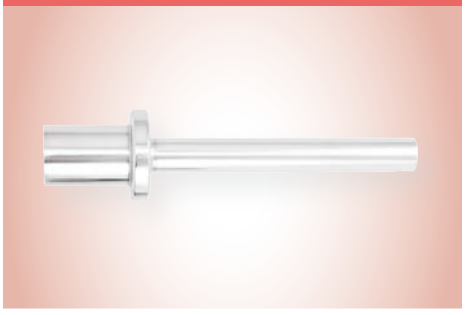
TW25

Weld–in (solid-machined)

Thermowell form:	Tapered, straight or stepped
Head diameter:	Up to 2 inch (50.8 mm)
Data sheet:	TW 95.25

TW30

Vanstone (solid-machined) for lap flanges

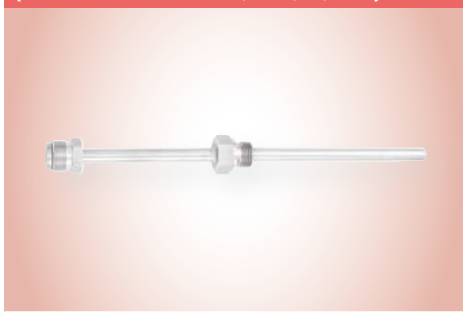


Thermowell form:	Tapered, straight or stepped
Nominal size:	ASME 1, 1½ or 2 inch
Pressure rating:	ASME up to 2,500 psig
Data sheet:	TW 95.30

VARIVENT® is a registered trademark of the company Tuchenhagen
BioControl® is a registered trademark of the company NEUMO

TW35

Threaded (fabricated) (DIN 43772 form 2, 2G, 3, 3G)



Thermowell form:	Form 2, 2G, 3 or 3G
Material:	Stainless steel
Instrument connection:	M24 x 1.5 rotatable
Data sheet:	TW 95.35

TW40

Flanged (fabricated) (DIN 43772 form 2F, 3F)

Thermowell form:	Form 2F or 3F
Nominal size:	DIN/EN DN 25 to DN 50 (ASME 1 to 2 inch)
Pressure rating:	DIN/EN up to PN 100 (ASME up to 1,500 psig)
Data sheet:	TW 95.40

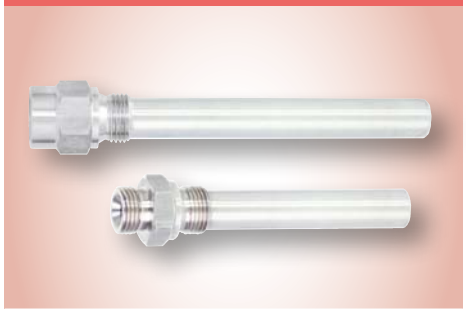
TW45

Screw-in (fabricated) (DIN 43772 form 5, 8)

Thermowell form:	Form 5 or 8
Material:	Stainless steel or copper alloy
Data sheet:	TW 95.45

TW50

Screw-in (solid-machined) (DIN 43772 form 6, 7, 9)



Thermowell form:	Form 6, 7 or 9
Data sheet:	TW 95.50

TW55

Weld-in or flanged (solid-machined) (DIN 43772 form 4, 4F)

Thermowell form:	Form 4 or 4F
Nominal size:	DIN/EN DN 25 to DN 50 (ASME 1 to 2 inch)
Pressure rating:	DIN/EN up to PN 100 (ASME up to 2,500 psig)
Data sheet:	TW 95.55

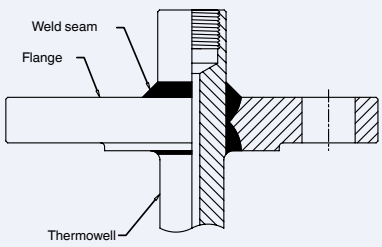
Further information at www.wika.com

Thermowells

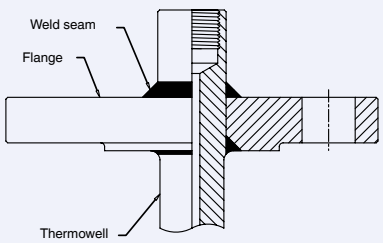
WIKA thermowells are available both in solid machined and fabricated designs. The variants offered include designs with flanges, with threads and for welding. Furthermore, thermowells are available in Vanstone design and with sterile process engineering connections. The choice of material and manufacturing to customer requirements ensure optimal protection of the sensor and accurate measurements. Thermowells with flanges can be manufactured with double fillet weld, penetration weld or in threaded weld designs. A full-penetration weld seam guarantees a complete joining of the flange and the thermowell, and thus the strongest welded joint. The double fillet weld offers a good alternative with its excellent stability.

Thermowells in threaded weld design consist of a thermowell with a 1-NPT thread, which is screwed into a threaded flange. In addition, the thermowell is secured on one or both sides by a weld seam.

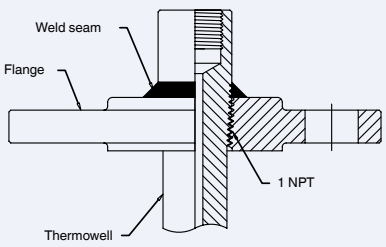
Welding options



Full-penetration weld version



Fillet weld, double-sided

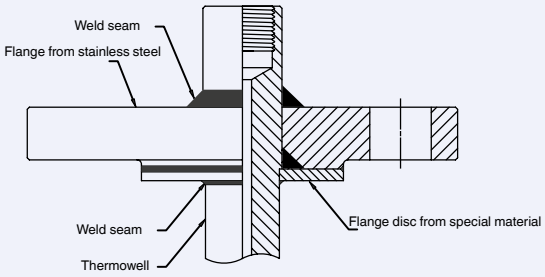


Thread-welded design

Flange disc option for special materials

The design with a flange disc is available for solid machined or fabricated flanged thermowells. In this design, the flange disc material is matched to the material of the thermowell shaft; the non-wetted flange is manufactured from stainless steel. The flange disc is welded to the thermowell and the stainless steel flange, so that all the parts form a single unit. After welding, the sealing face of the flange disc is turned to the required surface roughness.

The flange disc design is used when chemically aggressive process media require the use of special materials, while the flange, for cost considerations, can be manufactured from stainless steel.
Usually 316/316L stainless steel is used as flange material. The weld seam used is a double fillet weld between all components.



Note: The main advantage of this design is the cost-saving over a complete construction from special materials. However, due to the design, an air gap exists between the stainless steel flange and the flange disc, which could be detrimental in critical processes.

Non-destructive test/evaluation

Non-destructive testing (NDT) and non-destructive evaluation (NDE). A number of different tests are carried out by WIKA to determine deficiencies or defects in or on the surface of materials.

Liquid penetrant inspection (LPI) is used to locate surface defects on relatively smooth and non-porous materials. This test method is normally used for welded parts to guarantee a good quality of the weld surface. Typical weld defects that can be discovered are cracks, porous spots, overlaps and laminations.

X-ray testing (RT) is used extensively on weld seams of pipes, fittings, etc. The method is based on the differing absorptions of penetrating radiation and thus detects differences in density due to material composition, thickenings and flaws. Defects are found internally and may typically be present in raw materials, castings, and forgings, as well as in welded and soldered joints. X-ray tests are normally used for components that must fulfil critical requirements. Irregularities or flaws that can be detected include: surface and internal cracks, voids, laminations, thickenings, lack of fusion, lack of penetration, excessive penetration, porosity, inclusions, misassembly and misalignments.

Hydrostatic and pneumatic pressure and strength tests are used to (statically) test thermowells, piping systems, vessels, pressure seals, mineral insulated cable and associated fittings or bushings under their working pressure.

The hydrostatic pressure and strength test is conducted with water at ambient temperatures. For pneumatic pressure testing, dry air, helium, argon or nitrogen are usually used.

Ultrasonic testing is used as an independent test or in conjunction with X-ray testing. It is a method in which high frequency sound waves are introduced into a material. Any surface or subsurface discontinuities or flaws that are detected interrupt the sound waves and reflect a proportion of them. The level of the reflected waves depends on the size of the discontinuity or flaw. The defects that can be detected are similar to those that can be found through X-ray testing. Ultrasonic testing often replaces X-ray methods when there is difficulty in positioning the X-ray film or where the required distance from the radiation source cannot be maintained, and this can introduce safety risks.

Positive material identification (PMI): A common method is spectroscopy with X-ray fluorescence analyses (RFA). With this method the analysing instrument has a low radioactive source. The basic principal is based upon the fact that each material has a different electron energy level and the instrument determines the required energy to remove an electron and thus, for example, to cause an ionisation. The analyser can only identify a limited number of metallic elements. This testing of material composition is fast, easy and effective when determining the accuracy of material certificates, of identifying material that has lost its marking, or when a large quantity of material must be checked.

An alternative system for determining material composition is Optical emission spectrometry (OES). This method uses a laser beam or an electric arc to excite the electrons in the material sample, which causes them to emit light. The wavelengths of the light emitted are related to the composition of the tested material.

Flange sealing faces on thermowells

For flanges in accordance with the standards ASME B16.5, EN 1092-1 and DIN 2527 there are different sealing face forms and surface finishes in use. The most commonly-used sealing face of all the standards is the version with offset sealing tongue with spiral phonographic grooves in the sealing face. The form and depth of the grooves is defined in the corresponding flange standards.

Less common in thermowells are flanges with smooth sealing faces without detectable grooves or designs with concentric, continuous grooves.

Flange form

Standard flange sealing faces per ASME B16.5

	AARH (µinch)	Ra (µm)
Stock finish	125 ... 250	3.2 ... 6.3
Smooth finish	< 125	< 3.2
RTJ (Ring joint groove)	< 63	< 1.6
Tongue/groove	< 125	< 3.2

Standard flange sealing faces to DIN 2527

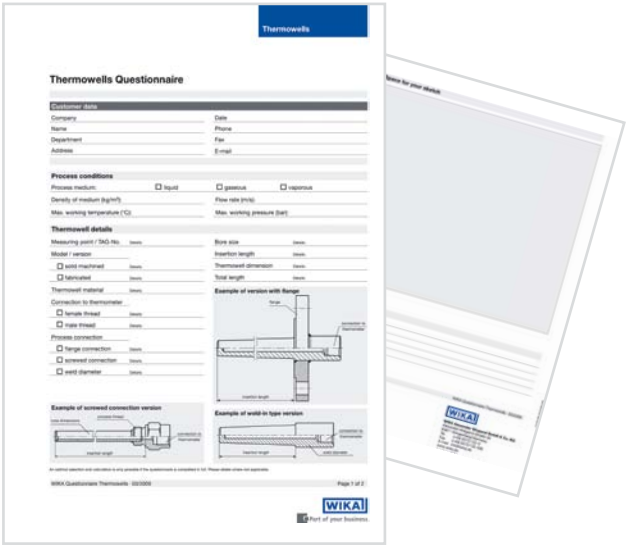
	Ra (µm)	Rz (µm)
Form C	-	40 ... 160
Form E	-	< 16

Standard flange sealing faces to EN 1092-1

	Ra (µm)	Rz (µm)
Form B1	3.2 ... 12.5	12.5 ... 50
Form B2	0.8 ... 3.2	3.2 ... 12.5

Thermowell design

To assist in the design of the thermowell, a separate spreadsheet is provided. This enables the dimensions to be determined for tapered and straight thermowells on which the process medium flow in the pipeline causes vibration or stress. Invalid value inputs or results that are outside the permissible limits can thus be identified. The calculation includes a wide range of standard and special materials.



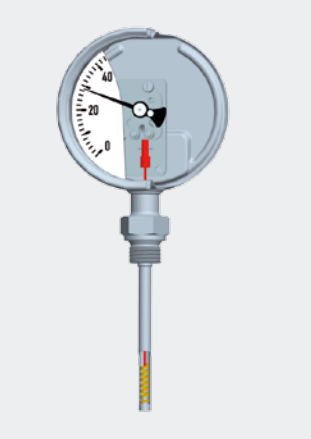
Mechanical temperature measuring instruments

Temperature is an indicator of the thermal condition of a homogenous material or body that expresses the energy of motion that is contained in the molecules of the material. A close thermal contact between two bodies is needed in order that these bodies adopt the same temperature (temperature equalisation). The body to be measured should be coupled as closely as possible to the temperature sensor system.
The most established temperature measurement methods are based on material or body properties that change depending on the temperature. We manufacture temperature measuring instruments to the following measuring principles:

Bimetal thermometers

Operating principle
A strip, made from two securely laminated rolled sheets, with metals having different coefficients of expansion ("bimetal"), will bend on any temperature change.
This causes the strip to deflect in proportion to the temperature variation. The actual bimetal system consists of a bimetal strip that is either

- a helical bourdon tube or a
- spiral tube



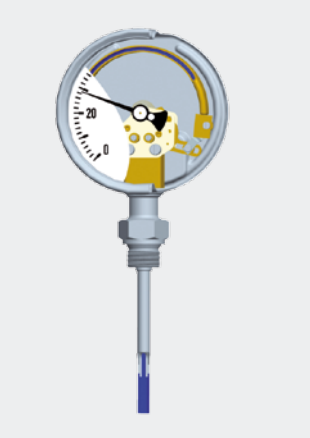
Through mechanical deformation of the bimetal strip in the aforementioned spring forms, a rotational movement occurs when the temperature changes.
If one end of the bimetal measuring system is fixed securely, the other will rotate the pointer shaft.
The scale ranges are between -70 and +600 °C with an accuracy class 1 and 2 in accordance with EN 13190.

Expansion thermometers

Operating principle
The measured value registration is made through the liquid-filled measuring system which consists of a temperature probe, capillary and Bourdon tube. All three components combine to form a closed tube system.
The internal pressure in the system changes with the adjacent temperature. This causes the pointer axis connected to the spring to turn and the temperature value to be displayed on the scale. The capillary, with lengths between 500 and 10,000 mm also enables measurements to be made on remote measuring points.
The scale ranges are between -40 and +400 °C with accuracy classes 1 and 2 in accordance with EN 13190.

Gas-actuated thermometers with or without capillary

Operating principle
The measuring system consists of a stem, capillary and Bourdon tube in the case. These parts are combined to form a single unit. The entire measuring system is filled with an inert gas under pressure.
Any change in temperature causes a change in internal pressure in the stem. The pressure deforms the Bourdon tube and the deflection is transferred to the pointer via a dial movement.



Variations in the ambient temperature acting on the case are compensated for by a bimetal element mounted between the movement and the Bourdon tube.
The scale ranges are between -200 and +700 °C with an accuracy class 1 in accordance with EN 13190.

Further products for temperature measurement

Fittings

Electrical thermometers

Digital indicators & controllers

Temperature transmitters

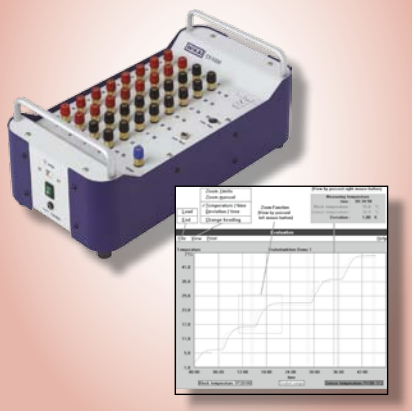
Hand-held measuring instruments

Temperature calibrators

Infrared hand-held thermometers

Transmitter with digital display

Data collection and software



Longlife digital thermometer

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 Instrument Corporation
Houston Facility
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 3651719
E-mail: info@wika.cl
www.wika.cl

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

Part of your business

9099620 01/2013 GB