

WIKA

Standard product portfolio

Pressure | Temperature | Level | Force | Flow | Calibration technology



WIKAI

Part of your business



Alexander Wiegand,
Chairman and CEO, WIKA

About us

As a family-run business acting globally, with 10,000 highly qualified employees, the WIKA group of companies is a worldwide leader in pressure and temperature measurement. The company also sets the standard in the measurement of level, force and flow, and in calibration technology.

Founded in 1946, WIKA is today a strong and reliable partner for all the requirements of industrial measurement technology, thanks to a broad portfolio of high-precision instruments and comprehensive services.

With manufacturing locations around the globe, WIKA ensures flexibility and the highest delivery performance. Every year, over 50 million quality products, both standard and customer-specific solutions, are delivered in batches of 1 to over 10,000 units.

With numerous wholly owned subsidiaries and partners, WIKA competently and reliably supports its customers worldwide. Our experienced engineers and sales experts are your competent and dependable contacts locally.

Dial thermometers

Our dial thermometers work on the bimetal, expansion or gas actuation principle. This enables scale ranges of -200 ... +700 °C in different class accuracies, response times and resilience to environmental influences. Diverse connection designs, stem diameters and individual stem lengths enable a flexible measuring point design.

Dial thermometers with capillaries are particularly versatile. All thermometers are suited for operation in a thermowell if necessary.

Bimetal thermometers

A43

Heating technology



Nominal size	63, 80, 100 mm
Scale range	-30 ... +120 °C
Permissible operating pressure at thermowell/stem	Max. 6 bar
Wetted parts	Copper alloy
Data sheet	TM 43.01

A48

Refrigeration and air-conditioning technology



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

A50

Standard version



Nominal size	63, 80, 100, 160 mm
Scale range	-30 ... +200 °C
Connection	Removable thermowell with retainer screw
Wetted parts	Copper alloy
Data sheet	TM 50.03

A52, R52

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

TG53

Process version per ASME B40.200



Nominal size	3, 4, 5, 6"
Scale range	-70 ... +70 to 0 ... +600 °C
Wetted parts	Stainless steel
Option	Liquid damping to max. 250 °C (case and probe)
Data sheet	TM 53.02

TG54

Process version per EN 13190

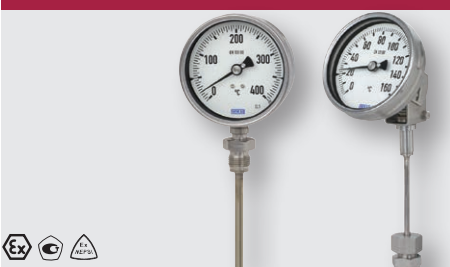


Nominal size	63, 80, 100, 160 mm
Scale range	-70 ... +70 to 0 ... +600 °C
Wetted parts	Stainless steel
Option	Liquid damping to max. 250 °C (case and probe)
Data sheet	TM 54.02

Bimetal thermometer

55

High-quality process version to EN 13190



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

Machine glass thermometer

32

V shape



Nominal size	110, 150, 200 mm
Scale range	-30 ... +200 °C
Wetted parts	Copper alloy
Option	<ul style="list-style-type: none"> ■ Dual scale °F/°C ■ 3 variants straight, 90° and 135°
Data sheet	TM 32.02

Expansion thermometers

TF58, TF59

With capillary, edgewise panel design



Nominal size	58 x 25 mm, 62 x 11 mm
Scale range	-50 ... 250 °C
Wetted parts	Copper alloy
Option	<ul style="list-style-type: none"> ■ Vertical arrangement ■ Special scales
Data sheet	TM 80.02

70

With capillary, stainless steel version



Nominal size	63, 100, 160 mm
Scale range	-60 ... +400 °C
Wetted parts	Stainless steel
Option	<ul style="list-style-type: none"> ■ Liquid damping (case) ■ Indication accuracy class 1
Data sheet	TM 81.01

IFC

With capillary, standard version



Nominal size	52, 60, 80, 100 mm
Scale range	-100 ... +400 °C
Wetted parts	Copper alloy
Option	<ul style="list-style-type: none"> ■ Square case version ■ Other case materials
Data sheet	TM 80.01

Dial thermometers

Gas-actuated thermometers

R73, S73, A73

Axial and radial, adjustable stem and dial



Nominal size	100, 160 mm
Scale range	-200 ... +100 to 0 ... +700 °C
Wetted parts	Stainless steel
Option	<ul style="list-style-type: none"> ■ Liquid damping (case) ■ Contact bulb
Data sheet	TM 73.01

F73

With capillary



Nominal size	100, 160 mm
Scale range	-200 ... +100 to 0 ... +700 °C
Wetted parts	Stainless steel
Option	<ul style="list-style-type: none"> ■ Armoured or coated capillary (PVC coating) ■ Liquid damping (case) ■ Contact bulb
Data sheet	TM 73.01

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

Thermomanometers

MFT

With capillaries, for pressure and temperature measurement



Nominal size	40, 42, 52 mm
Scale range	<ul style="list-style-type: none"> ■ Pressure 0 ... 4 bar ■ Temperature 0 ... 120 °C
Accuracy class	<ul style="list-style-type: none"> ■ Pressure 2.5 (EN 837-1) ■ Temperature 2.5
Data sheet	PM 01.20

THM10

Eco version, for pressure and temperature measurement



Nominal size	63, 80 mm
Scale range	<ul style="list-style-type: none"> ■ Pressure 0 ... 4 to 0 ... 10 bar ■ Temperature 0 ... 120 °C
Connection location	Lower mount or back mount
Accuracy class	<ul style="list-style-type: none"> ■ Pressure 2.5 (EN 837-1) ■ Temperature 2 (EN 13190)
Data sheet	PM 01.24

100.02

For pressure and temperature measurement



Nominal size	63, 80 mm
Scale range	<ul style="list-style-type: none"> ■ Pressure 0 ... 1 to 0 ... 16 bar ■ Temperature 0 ... 100 to 0 ... 150 °C
Accuracy class	<ul style="list-style-type: none"> ■ Pressure 2.5 (EN 837-1) ■ Temperature 2.5 °C
Data sheet	PM 01.23

Dial thermometers with output signal

TGT70

Expansion thermometer with output signal



Nominal size	63, 100 mm
Scale range	-40 ... +60 to 0 ... 250 °C
Wetted parts	Stainless steel
Option	<ul style="list-style-type: none"> ■ Capillary ■ Output signals 4 ... 20 mA or 0.5 ... 4.5 V ■ Other connection designs
Data sheet	TV 18.01

TGT73

Gas-actuated thermometer with output signal



Nominal size	100, 160 mm
Scale range	-200 ... +100 to 0 ... 700 °C
Wetted parts	Stainless steel
Option	<ul style="list-style-type: none"> ■ Capillary ■ Liquid damping (case) ■ Output signal 4 ... 20 mA or 0 ... 10 V
Data sheet	TV 17.10

Temperature transmitters

T15

Digital temperature transmitter for resistance sensors



Input	Resistance thermometers, potentiometers
Accuracy	< 0.1 %
Output	4 ... 20 mA
Special feature	The fastest and simplest configuration on the market
Data sheet	TE 15.01

T16

Digital temperature transmitter for thermocouples



Input	All commercially available thermocouples
Accuracy	Typical < 2 K
Output	4 ... 20 mA
Special feature	The fastest and simplest configuration on the market
Data sheet	TE 16.01

T32

HART® temperature transmitter



Input	Resistance thermometers, thermocouples, potentiometers
Accuracy	< 0.1 %
Output	4 ... 20 mA, HART® protocol
Special feature	TÜV certified SIL version (full assessment)
Data sheet	TE 32.04

T53

FOUNDATION™ Fieldbus and PROFIBUS® PA transmitter



Input	Resistance thermometers, thermocouples, potentiometers
Accuracy	< 0.1 %
Special feature	PC configurable
Data sheet	TE 53.01

T91

Analogue temperature transmitter 3-wire, 0 ... 10 V



Input	Resistance thermometers, thermocouples
Accuracy	< 0.5 or < 1 %
Output	0 ... 10 V, 0 ... 5 V
Special feature	Fixed measuring range
Data sheet	TE 91.01, TE 91.02

TIF50, TIF52

HART® field temperature transmitter



Input	Resistance thermometers, thermocouples, potentiometers
Accuracy	< 0.1 %
Output	4 ... 20 mA, HART® protocol
Special feature	PC configurable
Data sheet	TE 62.01