Gas-actuated thermometer for connection to WIKA radio unit Stainless steel version Model TGU73.100

WIKA data sheet TV 17.13







Applications

- Remote monitoring of the process temperature for non-critical applications in combination with WIKA radio unit, model NETRIS®3
- Process industry: oil and gas, chemical and petrochemical industries, power engineering, renewable energy, machine, plant and vessel construction

Special features

- IIoT-capable measuring instrument in combination with WIKA radio unit, model NETRIS®3
- Mechanical on-site indication with integrated digital interface
- Intrinsically safe version Ex i per ATEX, IECEx
- Compact design
- Scale ranges from -200 ... +700 °C [0 ... 500 °F]

For further approvals, see page 5



Gas-actuated thermometer for connection to WIKA radio unit, model TGU73.100

Description

The model TGU73.100 thermometer in combination with the model NETRIS®3 radio unit is used wherever web-based remote monitoring of the process temperature is desired in addition to on-site indication. For the operation of TGU73.100 the use of a thermowell is necessary.

The model TGU73.100 combines a mechanical measuring system with electronic signal processing and is intended for the connection to the WIKA radio unit model NETRIS®3. In this way, cloud-based process and plant monitoring can be realised in industrial applications.

This allows a condition-based and preventive maintenance through centralised big data analysis.

Due to the wide variety of possible versions, the model TGU73.100 gas-actuated thermometer can be perfectly adapted to any process connection or location. With the adjustable stem and dial version, the case can be adjusted precisely to the desired viewing angle. With the contact bulb version (without direct contact with the medium), the temperature can be measured and monitored even when the pipe diameter is extremely small.

The WIKA measuring instrument TGU73.100 is part of the WIKA IIoT solution. With this, WIKA offers a holistic solution for your digitalisation strategy.

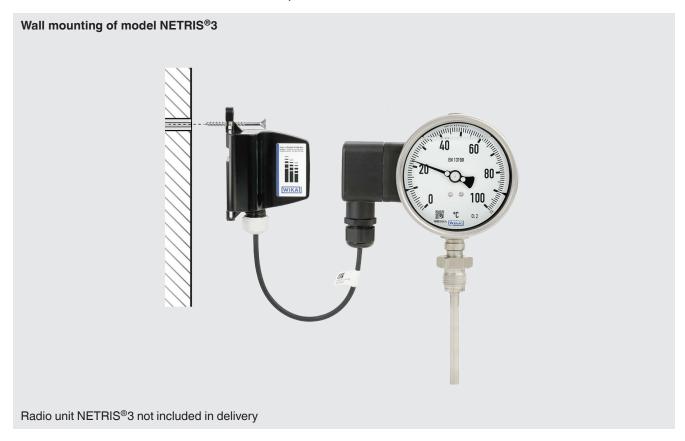
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Installation example

Model TGU73.100 with mounted WIKA radio unit, model NETRIS®3



Specifications

Basic information	
Standard	EN 13190
Nominal size (NS)	Ø 100 mm [4"]
Measuring element	Inert gas expansion system
Window	Laminated safety glass
Connection location	 Back mount (axial) Lower mount (radial) Back mount (adjustable stem and dial) Instruments with capillaries
Connection design	
S	Standard (threaded connection, fixed)
1	Plain stem (without thread)
2	Male nut
3	Union nut
4	Compression fitting (sliding on stem)
5	Union nut and loose threaded connection
6	Compression fitting (can be adjusted on either remote capillary or spiral protective sleeve)
7	Compression fitting at the case
-	Contact bulb for external mounting
Adjustable stem and dial instrument design	90° swivelling
	360° rotatable

Accuracy specifications Accuracy class 1) 2.0 per EN 13190, at 23 °C [73 °F] ±10 °C [±50 °F] ambient temperature

¹⁾ The accuracy class is valid for the mechanical indication and for the digitally transmitted temperature values.

Scale range in °C	Measuring range in °C 1) 2)	Scale interval in °C	Error limit ± °C
-200 +50	-170 +20	5	10
-200 +100	-170 +70	5	10
-80 +60	-60 +40	2	4
-60 +40	-50 +30	1	2
-40 +60	-30 +50	1	2
-30 +50	-20 +40	1	2
-20 +60	-10 +50	1	2
-20 +80	-10 +70	1	2
-20 +120	0 100	2	4
-20 +140	0 120	2	4
0 60	10 50	1	2
0 80	10 70	1	2
0 100	10 90	1	2
0 120	10 110	2	4
0 160	20 140	2	4
0 200	20 180	2	4
0 250	30 220	5	5
0 300	30 270	5	10
0 400	50 350	5	10
0 500	50 450	5	10
0 600	100 500	10	15
0 700	100 600	10	15

¹⁾ The limits of the measuring range are indicated on the dial by two triangular marks. Only within this range is the stated error limit valid per EN 13190

²⁾ The temperature range at the connection piece of the case is limited to -40 °C [-40 °F] \leq T_{Ref} \leq +100 °C [212 °F]

Scale range in °F	Measuring range in °F	Scale interval in °F	Error limit ± °F
0 200	20 180	2	4
0 250	30 220	5	10
0 500	50 450	5	10

Further details on: Measuring ranges		
Unit	C°FC/°F (dual scale)	
Damping	WithoutWith silicone oil filling	
Working range		
Constant loading (1 year)	Measuring range EN 13190	
Short time (max. 24 h)	Scale range EN 13190	
Remote capillary		
Material	Stainless steel 1.4571	
Diameter	2 mm [0.079"]	
Length	To customer specification	
Min. bending radius	6 mm [0.236"]	
Standard line	Max. 60 m [196.9 ft]	
Spiral protective sleeve	Max. 40 m [131.2 ft]	
Protective cover	■ Without■ With spiral protective sleeve Ø 7 mm [0.	.276"], flexible
Mounting options for instruments with remote capillary	Surface mounting flangePanel mounting flange	
Reverse polarity protection	Yes	
Dial		
Scale layout	Single scaleDual scale	
Scale colour	Single case	Black
	Dual case	Red
		→ Others on request

Other measuring ranges on request

Process connection	
hread size	 Plain without thread G ½ B, male thread ½ NPT, male thread G ½, female thread ½ NPT, female thread M20 x 1.5, male thread M24 x 1.5, male thread
	→ Others on request
Stem diameter	 8 mm [0.315"] 6 mm [0.236"] 10 mm [0.394"] 12 mm [0.472"]
	→ Others on request

Digital interface	
Signal type	Unified WIKA Interface (UWI)
Signal transmission of the temperature value	The temperature value of the main scale is transmitted digitally. With dual scales, the temperature value of the second scale is not transmitted digitally.
Digital signal resolution	0.04 % of measuring span
Connection type	NETRIS®3 plug connection for angular connectors

Material	
Plug connection	PA 6, black
Remote capillary	
Surface mounting flange	Stainless steel 1.4301
Panel mounting flange	Stainless steel 1.4301
Spiral protective sleeve	Stainless steel 316
Contact bulb	Stainless steel 1.4571
Material (wetted)	
Process connection	Stainless steel 304
Stem	Stainless steel 316
Material (non-wetted)	
Case	Stainless steel 316L
Articulated joint "adjustable stem and dial"	Stainless steel 316L
Ring	Stainless steel 304
Dial	AluminiumWhiteBlack lettering
Pointer	■ Aluminium ■ Black ■ Adjustable pointer

Operating conditions	
Ambient temperature range 1)	-40 +60 °C [-40 +140 °F] without/with liquid damping
Storage and transport	-40 +60 °C [-40 +140 °F]
Ingress protection per IEC/EN 60529 2)	IP65

Approvals

Logo	Description	Region
C€	EU declaration of conformity	European Union
	EMC directive EN 61326 emission (group 1, class B) and immunity (industrial application)	
	RoHS directive	
€x>	ATEX directive Hazardous areas - Ex ia Zone 1 gas II 2G Ex ia IIC T4 Gb	European Union
IEC. IECEx	Hazardous areas - Ex i Zone 1 gas Ex ia IIC T4 Gb	International
-	MTEx Hazardous areas - Ex i Zone 1 gas Ex ia IIC T4 Gb	South Africa

¹⁾ Accuracy class only guaranteed at 23 °C [73 °F] \pm 10 °C [\pm 50 °F].
2) The ingress protection only applies with a correct plug connection with model NETRIS®3.

Certificates (option)

Certificates	
Certificates	 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 metal parts, indication accuracy, calibration certificate)

[→] For approvals and certificates, see website

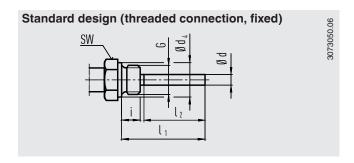
Safety-related characteristic values (Ex)

Safety-related characteristic values (Ex)		
Electrical parameters of the intrinsically safe voltage supply		
Max. input voltage Ui	DC 7 V	
Max. input current for gas applications Ii	250 mA	
Max. input power Pi	330 mW	
Effective internal capacitance C _i	4.75 μF	
Effective internal inductance L _i	Negligible	
Temperature range		
Ambient temperature	-40 +60 °C [-40 +140 °F]	
Connector T _{Ref} 1)	-40 +100 °C [-40 +212 °F]	

¹⁾ The connection piece T_{Ref} is located on the rear of the temperature probe where it is connected to the case of the thermometer, see operating instructions of model TGU73.100.

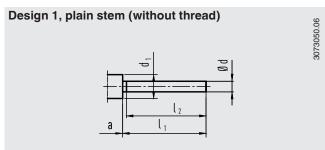
The model TGU73.100 is intended for use with the intrinsically safe, battery-operated WIKA model NETRIS®3 radio unit with ignition protection type "ia".

Connection designs



Standard insertion length: $I_1 = 63$, 100, 160, 200, 250 mm

Nominal size	Process- connection	Dimensions in mm ["]				
NS in mm ["]	G	i	SW	d	Ø d	
100 [4"]	G ½ B	14 [0,55]	27 [1.06]	26 [1.02]	8 [0.32]	
	G 3/4 B	16 [0,63]	32 [1.26]	32 [1.26]	8 [0.32]	
	½ NPT	19 [0,75]	22 [0.87]	-	8 [0.32]	
	¾ NPT	20 [0,79]	30 [1.18]	-	8 [0.32]	

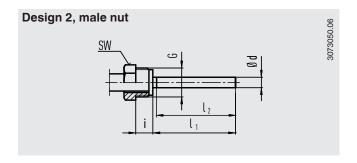


Standard insertion length: $I_1 = 63, 100, 160, 200, 250 \text{ mm}$ [2.48, 3.94, 6.30, 7.84, 9.84"]

Basis for design 4, compression fitting

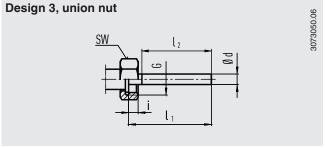
Nominal size	Dimensions in mm ["]				
NS in mm ["]	d ₁ 1)	Ø d	a for axial	a for adjustable stem and dial	
100 [4"]	18 [0.71]	8 [0.32]	15 [0.60]	25 [0.98]	

1) Not applicable to version with remote capillary.



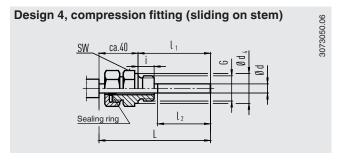
Standard insertion length: $I_1 = 80, 140, 180, 230 \text{ mm}$ [3.15, 5.51, 7.09, 9.06"]

Nominal size	Process connec- tion	Dimensions in mm ["]			
NS in mm ["]	G	i	sw	Ø d	
100 [4"]	G ½ B	20 [0,79]	27 [1.06]	8 [0.32]	
	M20 x 1.5	15 [0,59]	22 [0.87]	8 [0.32]	



Standard insertion length: $I_1 = 89, 126, 186, 226, 276 \text{ mm}$ [3.50, 4.96, 7.23, 8.9, 10.87"]

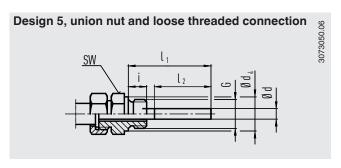
Nominal size	Process connec- tion	Dimensions in mm ["]			
NS in mm ["]	G	i	sw	Ø d	
100 [4"]	G 1/2 B	8.5 [0,34]	27 [1.06]	8 [0.32]	
	G 3/4 B	10.5 [0,41]	32 [1.26]	8 [0.32]	
	M24 x 1.5	13.5 [0,53]	32 [1.26]	8 [0.32]	



 $\begin{array}{lll} \text{Standard insertion} & I_1 = 63,\,100,\,160,\,200,\,250\,\,\text{mm} \\ \text{length:} & [2.48,\,3.94,\,6.30,\,7.84,\,9.84"] \end{array}$

Length: $L = I_1 + 40 \text{ mm} [1.58"]$

Nominal size	Process- connection	Dimensions in mm ["]				
NS in mm ["]	G	i	SW	d	Ø d	
100 [4"]	G ½ B	14 [0,55]	27 [1.06]	26 [1.02]	8 [0.32]	
	G 3/4 B	16 [0,63]	32 [1.26]	32 [1.26]	8 [0.32]	
	M18 x 1.5	12 [0,47]	24 [0.95]	23 [0.91]	8 [0.32]	
	½ NPT	19 [0,75]	22 [0.87]	-	8 [0.32]	
	¾ NPT	20 [0,79]	30 [1.18]	-	8 [0.32]	



Standard insertion length:

I₁ = 100, 140, 200, 240, 290 mm [3.94, 5.51, 7.87, 9.45, 11.42"]

Nominal size	Process connection	Dimensions in mm ["]				
NS in mm ["]	G	i	SW	d	Ø d	
100 [4"]	G ½ B	14 [0,55]	27 [1.06]	26 [1.02]	8 [0.32]	
	G 3/4 B	16 [0,63]	32 [1.26]	32 [1.26]	8 [0.32]	
	M18 x 1.5	12 [0,47]	24 [0.95]	23 [0.91]	8 [0.32]	
	½ NPT	19 [0,75]	22 [0.87]	-	8 [0.32]	
	¾ NPT	20 [0,79]	30 [1.18]	-	8 [0.32]	

For Connection with union nut M24 x 1.5 and loose threaded connection M18 x 1.5 $\,$

Nominal size	Process- connection	Dimensions in mm ["]			
NS in mm ["]	G	i	sw	Ø d	
100 [4"]	M20 x 1.5	15 [0,59]	22 [0.87]	8 [0.32]	

Design 6.1, compression fitting sliding on remote capillary (compression fitting is leak-proof)

Insertion length I1: Variable

Probe length L: Standard 200 mm [7.87"] with

 \emptyset d = 6 mm [0.24"]

Standard 170 mm [6.69"] with

 \emptyset d = 8 mm [0.32"]

Standard 100 mm [3.94"] with

 $\emptyset d \ge 10 \text{ mm } [0.39"]$

Design 6.2, compression fitting sliding on remote capillary with spiral protective sleeve (compression fitting is leak-proof)

Insertion length I_1 : $\geq 300 \text{ mm} [11.81"] \text{ with } \emptyset \text{ d} = 6 [0.24]$

or 8 mm [0.32"]

 \geq 200 mm [7.87"] with \varnothing d \geq 10 mm

[0.39"]

Probe length L: Standard 200 mm [7.87"] with

 \emptyset d = 6 mm [0.24"]

Standard 170 mm [6.69"] with

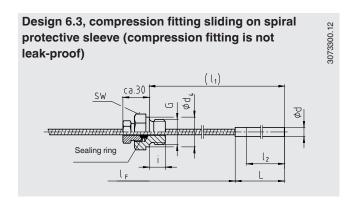
 \emptyset d = 8 mm [0.32"]

Standard 100 mm [3.94"] with

 \emptyset d \geq 10 mm [0.39"]

Nominal size	Process connection	Dimensions in mm ["]				
NS in mm ["]	G	i	SW	d	Ø d	
100 [4"]	G ½ B	14 [0.55]	27 [1.06]	26 [1.02]	8 [0.32]	
	G ¾ B	16 [0.63]	32 [1.26]	32 [1.26]	8 [0.32]	
	½ NPT	19 [0.75]	22 [0.87]	-	8 [0.32]	
	¾ NPT	20 [0.79]	30 [1.18]	-	8 [0.32]	

Nominal size	Process connection	Dimensions in mm ["]				
NS in mm ["]	G	i	SW	d	Ø d	
100 [4"]	G ½ B	14 [0.55]	27 [1.06]	26 [1.02]	8 [0.32]	
	G 3/4 B	16 [0.63]	32 [1.26]	32 [1.26]	8 [0.32]	
	½ NPT	19 [0.75]	22 [0.87]	-	8 [0.32]	
	3/4 NPT	20 [0.79]	30 [1.18]	-	8 [0.32]	



Design 7, compression fitting at the case

Insertion length I₁: Variable

Probe length L: Standard 200 mm [7.87"] with

 \emptyset d = 6 mm [0.24"]

Standard 170 mm [6.69"] with

 \emptyset d = 8 mm [0.32"]

Standard 100 mm [3.97"] with

 \emptyset d \ge 10 mm [0.32"]

Nominal size	Process connection	Dimensions in mm ["]				
NS in mm ["]	G	i	SW	d ₄	Ød	
100 [4"]	G 1/2 B	14 [0,55]	27 [1.06]	26 [1.02]	8 [0.32]	
	G 3/4 B	16 [0,63]	32 [1.26]	32 [1.26]	8 [0.32]	
	½ NPT	19 [0,75]	22 [0.87]	-	8 [0.32]	
	3/4 NPT	20 [0,79]	30 [1.18]	-	8 [0.32]	

Insertion length I ₁ :	≥ 400 mm [15.75"]
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Probe length L: Standard 200 mm [7.87"] with

 \emptyset d = 6 mm [0.24"]

Standard 170 mm [6.69"] with

 \emptyset d = 8 mm [0.32"]

Standard 100 mm [3.97"] with

 \emptyset d \ge 10 mm [0.32"]

100 mm [0.32"]

l_B:

→ Others on request

Nominal size	Process connection	Dimensions in mm ["]				
NS in mm ["]	G	i	SW	d ₄	Ø d	
100 [4"]	G ½ B	14 [0,55]	27 [1.06]	26 [1.02]	8 [0.32]	
	G 3/4 B	16 [0,63]	32 [1.26]	32 [1.26]	8 [0.32]	
	½ NPT	19 [0,75]	22 [0.87]	-	8 [0.32]	
	3/4 NPT	20 [0,79]	30 [1.18]	-	8 [0.32]	

Note for designs 6.1, 6.2, 6.3 and 7

With some combinations, the active length l_2 can correspond to the probe length L. If an additional compression fitting is desired, the probe length L increases by at least 60 mm [2.36"].

Legend:

G Male thread G₁ Female thread

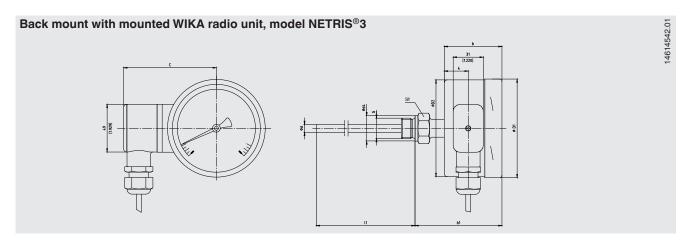
i Thread length (incl. collar)

a Distance to the case/articulated joint

Ø d₄ Diameter of the sealing collar

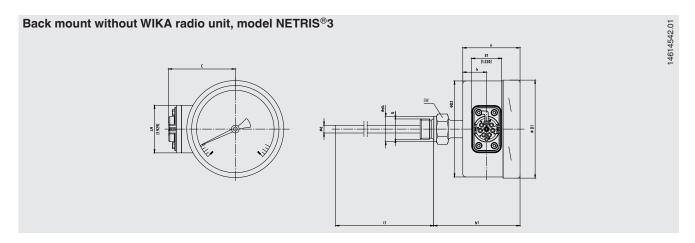
 $\begin{array}{lll} \text{SW} & & \text{Spanner width} \\ \varnothing \text{ d} & & \text{Stem diameter} \\ \text{I}_1 & & \text{Insertion length} \\ \text{I}_2 & & \text{Active length} \end{array}$

Dimensions in mm ["]



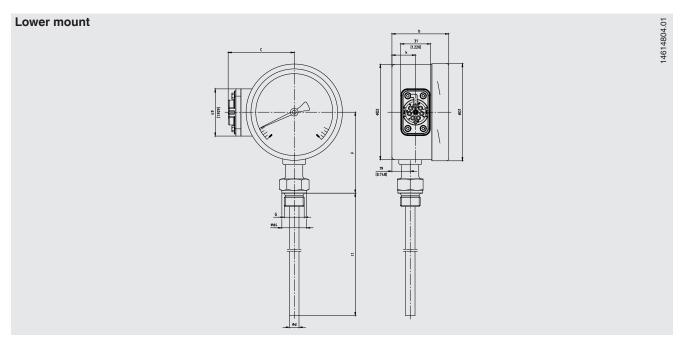
Nominal size	Dimensions in mm ["]									Weight in kg	
NS in mm ["]	b 1)	b ₁	С	Ø d	Ø d ₄	Ø D ₁	Ø D ₂	G	k	SW	[lbs]
100 [4"]	60/68 [2.36/2.68]	92/100 [3.62/3.94]	94 [3.70]	8 ²⁾ [0.32]	26 [1.02]	101 [3.98]	99 [3.90]	G 1/2 B	25 [0.98]	27 [1.06]	1.3 [2.87]

- Dependent on required measuring system Version with stem diameter 6 mm [0,24"], 10 mm [0,39"], 12 mm [0,47"]



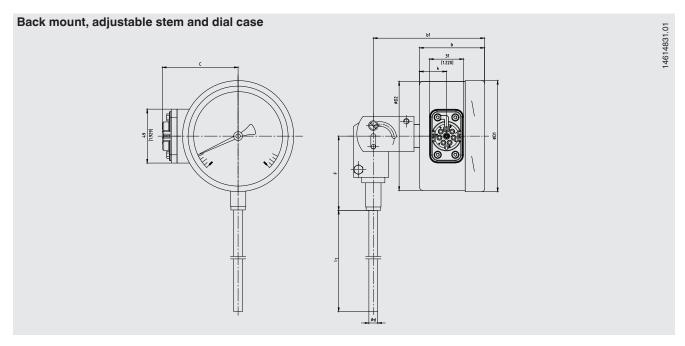
Nominal size	Dimensions in mm ["]									Weight in kg	
NS in mm ["]	b 1)	b ₁	С	Ø d	Ø d ₄	Ø D ₁	Ø D ₂	G	k	SW	[lbs]
100 [4"]	60/68 [2.36/2.68]	92/100 [3.62/3.94]	68.8 [2.71]	8 ²⁾ [0.32]	26 [1.02]	101 [3.98]	99 [3.90]	G 1/2 B	25 [0.98]	27 [1.06]	1.3 [2.87]

- Dependent on required measuring system Version with stem diameter 6 mm [0,24"], 10 mm [0,39"], 12 mm [0,47"]



Nominal size	Dimensions in mm ["]								Weight	
NS in mm ["]	b ¹⁾	С	Ø d	Ø d ₄	Ø D ₁	\emptyset D ₂	F ³⁾	G	k	in kg [lbs]
100 [4"]	60/68 [2.36/2.68]	68.8 [2.71]	8 ²⁾ [0.32]	26 [1.02]	101 [3.98]	99 [3.90]	85 [3.35]	G ½ B	25 [0.98]	1.3 [2.9]

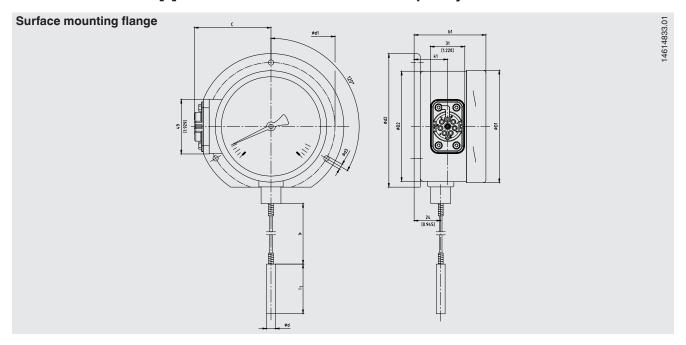
- Dependent on required measuring system Version with stem diameter 6 mm [0.24"], 10 mm [0.39"], 12 mm [0.47"] With scale ranges \geq 0 ... 300 °C [\geq 32 ... 572 °F] the dimensions increase by 40 mm [1.58"]

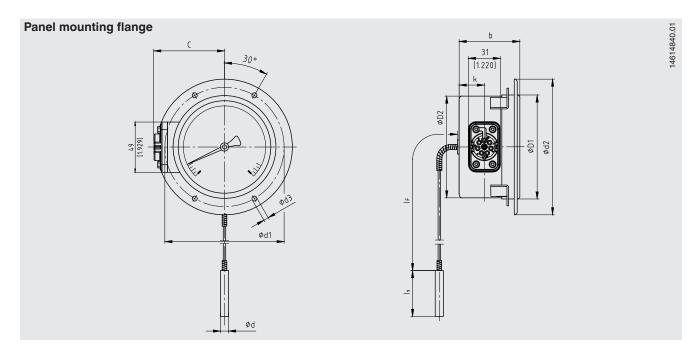


Nominal size	Dimension	Dimensions in mm ["]								
NS in mm ["]	b 1)	b ₁ 1)	С	d	D ₁	D_2	F	k		
100 [4"]	60/68 [2.36/2.68]	104/112 [4.09/4.41]	68.8 [2.71]	8 ²⁾ [0.32]	101 [3.98]	99 [3.90]	68 [2.68]	25 [0.98]		

- Dependent on required measuring system Version with stem diameter 6 mm [0,24"], 10 mm [0,39"], 12 mm [0,47"]

Dimensions in mm ["] for instruments with remote capillary

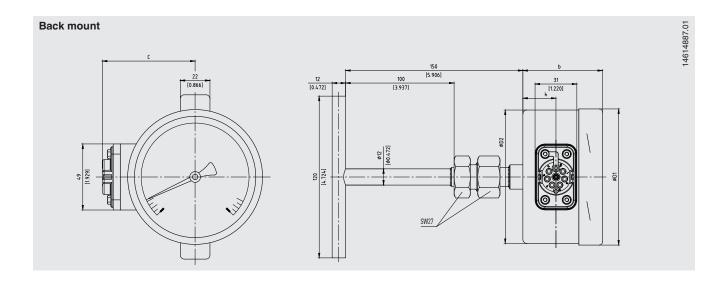


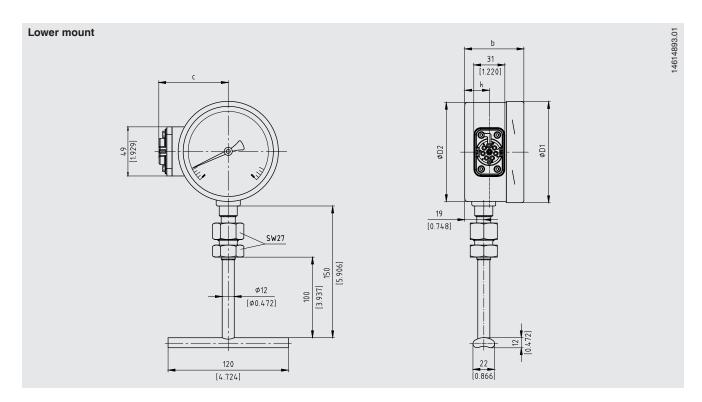


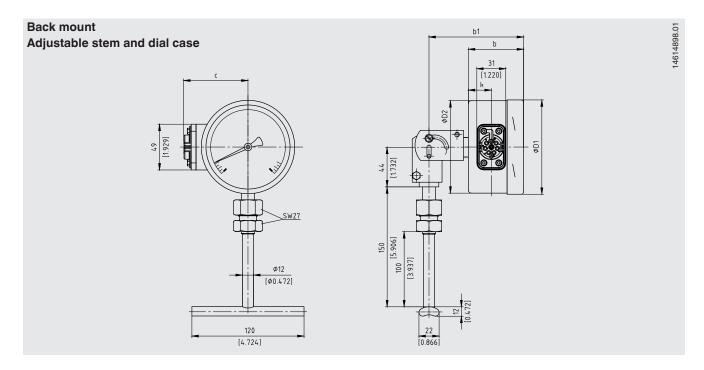
Nominal size	Dimensi	Dimensions in mm ["]									
NS in mm ["]	b 1)	b ₁ 1)	С	d	d ₁	d_2	d ₃	D ₁	D ₂	k	k ₁
100 [4"]	60/68 [2.36/ 2.68]	65/73 [2.56/ 2.84]	68.8 [2.71]	8 ²⁾ [0.32]	116 [4.57]	132 [5.20]	68 [2.68]	25 [0.98]	99 [3.90]	25 [0.98]	30 [1.18]

Dependent on required measuring system
Option: Stem diameter 6 mm [0,24"], 10 mm [0,39"], 12 mm [0,47"]

Dimensions in mm ["] for instruments with contact bulb



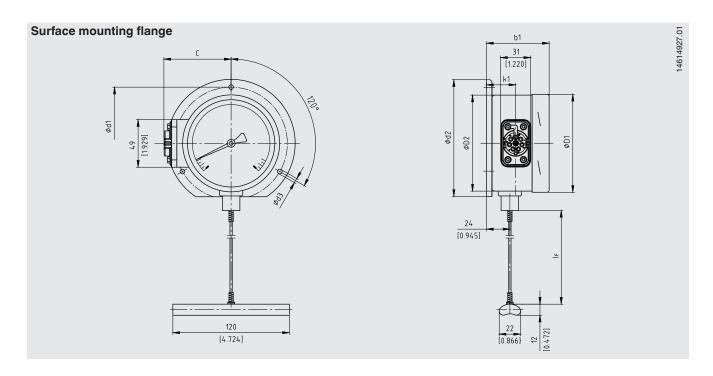


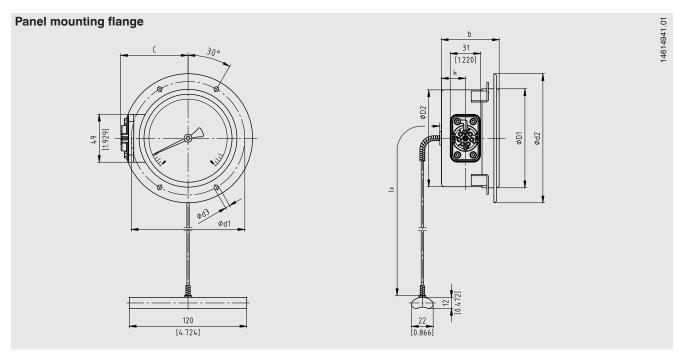


Connection location	Nominal size	Dimensions in mm ["]						
	NS in mm ["]	b 1)	b ₁ 1)	С	D ₁	D ₂	k	
Back mount	100 [4"]	60/68 [2.36/ 2.68]	104/112 [4.09/ 4.41]	68.8 [2.71]	101 [3.98]	99 [3.90]	25 [0.98]	
Lower mount	100 [4"]	60/68 [2.36/ 2.68]	104/112 [4.09/ 4.41]	68.8 [2.71]	101 [3.98]	99 [3.90]	25 [0.98]	
Adjustable stem and dial	100 [4"]	60/68 [2.36/ 2.68]	104/112 [4.09/ 4.41]	68.8 [2.71]	101 [3.98]	99 [3.90]	25 [0.98]	

¹⁾ Dependent on required measuring system

Dimensions in mm ["] for instruments with contact bulb and remote capillary





Nominal size	Dimens	Dimensions in mm ["]								Weight in	
NS in mm ["]	b 1)	b ₁ 1)	С	d ₁	d_2	d ₃	D ₁	D ₂	k	k ₁	kg [lbs]
100 [4"]	60/68 [2.36/ 2.68]	65/73 [2.56/ 2.84]	68.8 [2.71]	116 [4.57]	132 [5.20]	4.8 [0.19]	101 [3.98]	99 [3.90]	25 [0.98]	30 [1.18]	1.6 [3.5]

¹⁾ Dependent on required measuring system

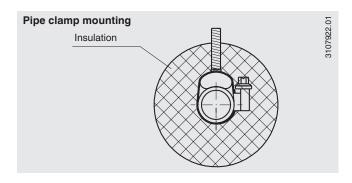
Mounting instructions for contact bulb

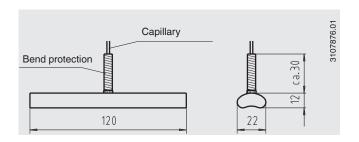
General

The contact bulb has been designed for mounting on pipes or tanks. When mounting this thermometer version, it must be ensured that the contact bulb is in contact with the measuring location over its complete length. The basic requirements to ensure a perfect measuring result is to retain good thermal contact between the contact bulb and the outside wall of the pipe or tank with minimal heat dissipation to the environment from the contact bulb and measuring location.

Mounting on pipes

The geometry of the contact bulb has been designed for pipes with outer diameters between 20 mm [0,79"] and 160 mm [6,3"]. For fixing the contact bulb to the pipe, pipe clamps are sufficient. The contact bulb should have direct metallic contact with the measuring location and have firm contact with the surface of the pipe. Where temperatures under 200 °C [392 °F] are expected, a thermal compound can be used to optimise the heat transfer between contact bulb and pipe. Insulation must be applied at the mounting point to avoid error due to heat loss. This insulation must have sufficient temperature resistance and is not included in the scope of delivery.

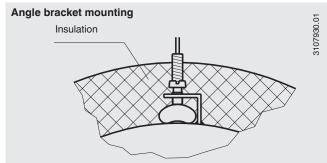




Mounting on vessel

The geometry of the contact bulb has been designed for tanks with an external radius up to 80 mm [3,15"]. If the mounting point of the contact bulb on the tank has an external radius greater than 80 mm [3,15"], we recommend the use of an intermediate piece designed for the respective tank diameter, made of a material with good thermal conductivity. The contact bulb can be fastened to the tank by means of an angle bracket with clamping screws, or any similar method. The contact bulb should have direct metallic contact with the measuring location and have firm contact with the surface of the tank.

A thermal compound can be used to optimise the heat transfer between contact bulb and tank, if temperatures under 200 °C [392 °F] are expected. Insulation must be applied at the mounting location to avoid error due to heat loss. This insulation must have sufficient temperature resistance and is not included in the scope of delivery.



Thermowells

For the operation of TGU73.100 the use of a thermowell is absolutely necessary.

This allows the replacement of the thermometer during operation and ensures an increased protection of the measuring instrument and of the plant and environment. It is advisable to use a thermowell/protection tube from the extensive WIKA-portfolio.

For further information on the wake frequency calculation of the thermowell, see technical information IN 00.15.

Accessories

	Model	Description
	NETRIS®3	Radio unit with LoRaWAN® for WIKA measuring instruments For applications in hazardous areas → See data sheet AC 40.03
	Model TW10	→ see data sheet TW 95.10
1	Model TW15	→ see data sheet TW 95.15
	Model TW25	→ see data sheet TW 95.25
t <u>*</u> 3	Model TW45	→ see data sheet TW 95.45
())	Model TW50	→ see data sheet TW 95.50
E T	Model TW55	→ see data sheet TW 95.55

Ordering information

Model / Case filling / Scale range / Connection design / Process connection / Length I₁ / Capillary length I_F / Options

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We reserve the right to make modifications to the specifications and materials.
In case of a different interpretation of the translated and the English data sheet, the English wording shall prevail.

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