Bimetal Thermometer - Process Grade - All Stainless Steel Construction Type TI.32, 3" Dial Size - Ajustable Angle Connection

Datasheet TI.32

Applications

- General process instrumentation in the chemical, petro chemical, oil and gas, energy and water/wastewater industries
- Temperature measurement in harsh and aggressive environments
- With liquid dampening suitable for applications with high vibrations

Product features

- Process grade design
- Adjustable angle connection with external reset
- All stainless steel case construction
- Hermetically sealed per ASME B40.3
- Accurate to 1% of full scale value
- Available with silicone case filling for vibration

Specifications

Size

3" (76.2 mm) Type TI.32

Accuracy

± 1.0% full scale value per ASME B40.3, Grade 1A

Ranges

From -100 °F (-70 °C) to +1000 °F (+540 °C) From -50 °C to +550 °C (as single scale) Reference table on page 2

Working Range

Steady:full scale valueShort time:110% of full scale value

Over/Under Range Protection

≤ +500 °F (+260 °C): Temporary up to 50% of full scale > +500 °F (+260 °C): Continuous to 800 °F (+427 °C) Intermittant up to 1000 °F (+538 °C)

Connection

Material: 304 stainless steel Lower mount (LM), 1/2" NPT

Stem

Material: 304 stainless steel Diameter: 1/4" (6.35 mm) Length: 21/2" to 72" (63.5 mm to 1,828.8 mm)

Measuring Element

Bi-metal helix

Case

Material: 304 stainless steel Hermetically sealed per ASME B40.3 standard Weather protection NEMA 4X (IP 66) External reset slotted hex head on back of case

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Thermometer TI.32

Dial

White aluminum, dished, with black markings

Case

Material: 304 stainless steel Hermetically sealed per ASME B40.3 standard Ingress protection IP 65 External reset slotted hex head on back of case

Pointer

Black aluminum

Standard Scales

Single: Fahrenheit or Celsius Dual: Fahrenheit (outer) and Celsius (inner)

Window Gasket

Neoprene Silicone for ranges -100 °F (-70 °C) and ranges > +550 °F (+260 °C)

Dampening Inert gel to minimize pointer oscillation

Window Flat instrument glass

Weight

10 oz. (280 g) - 3" dial (76.2 mm) Add 1 oz (28 g) for every 2" (50 mm)of stem length

Warranty 7- Year Warranty

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Optional Extras

- Thermowells
- Silicone fill

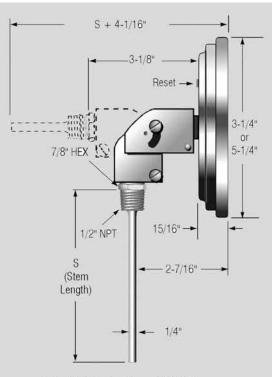
Dimensions

- Dampened Movement
- Special scales and dial markings
- Acrylic and safety glass windows
- Calibration certification traceable to NIST

STANDARD RANGES					
Fahrenheit Single Scale	Dual Scale F & C F Outer, C Inner	Celsius Single Scale			
-100/150 F	-100/150 F & -70/70 C	-50/50 C			
-40/120 F	40/120 F & -40/50 C	-20/120 C			
0/140 F	0/140 F & -20/60 C	0/50 C ¹			
0/200 F	0/200 F & -15/90 C	0/100 C			
0/250 F	0/250 F & -20/120 C	0/150 C			
20/240 F	20/240 F & -5/115 C	0/200 C			
25/125 F ¹	25/125 F & -5/50 C ¹	0/250 C			
50/300 F	50/300 F & 10/150 C	0/300 C			
50/400 F	50/400 F & 10/200 C	0/450 C ²			
50/550 F	50/500 F & 10/260 C	100/550 C ²			
150/750 F	150/750 F & 65/400 C				
200/1000 F ²	200/1000 F & 100/540 C ²				

¹ Minimum length 4" for Type 32

²Not recommended for continous service over 800°F (425°C)



Adjustable Angle (Types 32 & 52)

WIKA Туре	DIAL SIZE	Α	В	S (Stem Length)
32	3" (76.2 mm)	3-1/4" (82.6 mm)	15/16" (23.8 mm)	As Specified

Note: Thermowells for temperature instruments are recommended for all process systems where pressure, velocity, or viscous, abrasive and corrosive materials are present individually or in combination. A properly selected thermowell protects the temperature instrument from possible damage resulting from these process variables. Furthermore, a thermowell permits removal of the temperature instrument for replacement, repair or testing without effecting the process media or the system.

Ordering information

State computer part number (if available) /type number/size/range/connection size and locations/options required. WIKA reserves the right to make changes without prior notice.

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