Bimetal Thermometer
Model TI.20, All Stainless Steel Construction

Application

- Suitable fluid medium which does not corrode 304 stainless steel

Special features

- Back connection without external reset
- Industrial design
- All Stainless steel construction

Thermometer TI.20

Standard version

Size
2" (50.8 mm) - Type TI.20

Accuracy
± 1.0% full scale value (ASME B40.3)

Min. / Max. Ranges
-100 °F to 1000 °F (and equivalent Celsius)

Working Range
Steady: full scale value
Short time: 110% of full scale value

Under / Over Range Protection
Temporary over or under range tolerance of 50% of scale up to 500 °F (260°C). For ranges above 500°F, maximum over range is 800°F; continous. 1000°F intermittent.

Connection
Material: 304 stainless steel
Center back mount (CBM)
¼" NPT

Stem
Material: 304 stainless steel
Diameter: ¼" (6.35 mm)
Length: 2 ½" to 24" (63.5 mm to 609.6 mm)

Measuring Element
Bi-metal helix

Case
Material: 304 stainless steel; hermetically sealed per ASME B40.3 standard

Dial
White aluminum, dished, with black markings

Pointer
Black aluminum

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

Window
Flat instrument glass

Weight
2" - 5 oz.; Add 1 oz. for every 2" of stem length

Dampening
Inert gel to minimize pointer oscillation

Order Options (min. order may apply)
Special scales and dial markings; Acrylic windows
Calibration certification traceable to NIST

Warranty
Limited one year warranty as stated in WIKA's Terms & Conditions of Sale.

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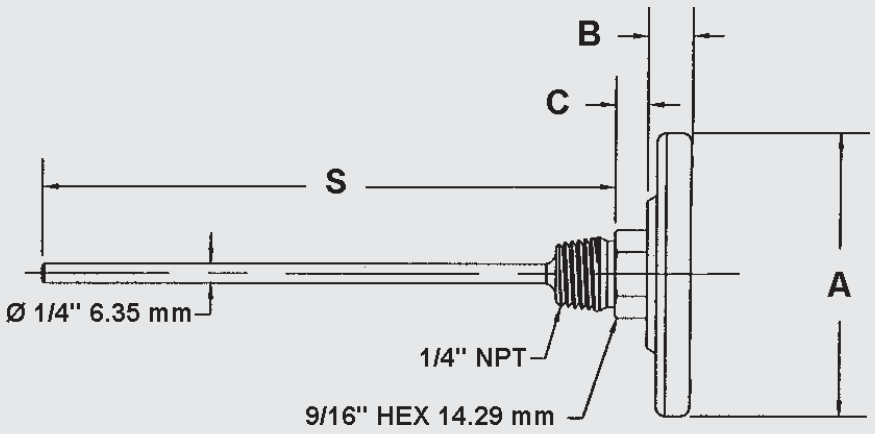
STANDARD RANGES		
Fahrenheit Single Scale	Dual Scale F & C F Outer, C Inner	Celsius Single Scale
-100/150 F	-100/150 F & -70/70 C	-50/50 C
-40/120 F-	40/120 F & -40/50 C	-20/120 C
0/140 F	0/140 F & -20/60 C	0/50 C
0/200 F	0/200 F & -15/90 C	0/100 C
0/250 F	0/250 F & -20/120 C	0/150 C
20/240 F	20/240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

[1]Not recommended for continous service over 800°F (425°C)

Dimensions

Standard versions



WIKA TYPE	DIAL SIZE	A	B	C	S (Stem Length)
20	2" (50.8 mm)	2- 1/16" (52.4 mm)	7/16" (11.1 mm)	1/4" (6.4 mm)	As Specified

STEM LENGTH
2½" (63.5 mm)
4" (101.6 mm)
6" (152.4 mm)
9" (228.6 mm)
12" (304.8 mm)
15" (381.0 mm)
18" (457.2 mm)
24" (609.6 mm)

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.

WIKA Instrument Corporation

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