



Bimetal Thermometers

All Stainless Steel Construction

Back Connection Without External Reset

Type TI.20

Thermometers

Application

Industrial type design for fluid medium which does not corrode 304 stainless steel.

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.

Standard Features

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



STANDARD RANGES

Fahrenheit	Dual Scale F & C	Celsius
Single Scale	F Outer, C Inner	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	

¹Not recommended for continuous service over 800°F (425°C)

Dampening

Helix coated with viscous silicone to minimize pointer oscillation and improve sensitivity (ranges below 400°F)

Order Options (min. order may apply)

Special scales and dial markings
Acrylic windows
Calibration certification traceable to NIST

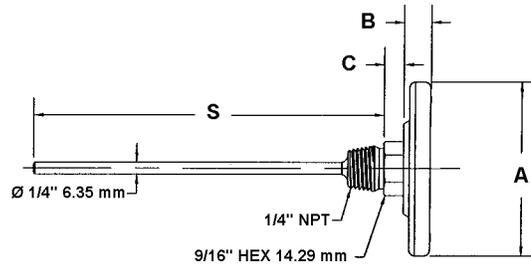
Warranty

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

ATM TI.20
(ATM 20.01)

Dimensions:

Type TI.20



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

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.

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)

THE MEASURE OF
Total Performance™

Ordering Information:

State computer part number (if available) / type number / size / range / connection size and location / options required.

Specifications given in this price list represent the state of engineering at the time of printing. Modifications may take place and the specified materials may change without prior notice



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