

# Bimetal Thermometer

## Model TI.34, All Stainless Steel Construction

Datasheet TI.34

### Applications

- Suitable for fluid medium which does not corrode 304 stainless steel

### Special features

- Industrial design
- Lower (bottom) connection without external reset
- All stainless steel construction

### Standard version

#### Size

3" (76.2 mm)

#### Accuracy

± 1.0% full scale value (ASME B40.3)

#### 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; continuous. 1000°F intermittent.

#### Connection

Material: 304 stainless steel

Lower mount (LM), 1/2" NPT

#### Stem

Material: 304 stainless steel

Diameter: 1/4" (6.35 mm)

Length: 2 1/2" to 24" (63.5 mm to 609.6 mm)

#### Measuring Element

Bi-metal helix

#### Dial

White aluminum, dished, with black markings



Thermometer TI.34

#### Case

Material: 304 stainless steel

Hermetically sealed

Ingress protection IP 65

#### Pointer

Black aluminum

#### Standard Scales

Single: Fahrenheit or Celsius

Dual: Fahrenheit (outer) and Celsius (inner)

#### Window Gasket

Neoprene

Silicone (-100 °F and over 550 °F)

#### Window

Flat instrument glass

#### Weight

11 oz. (Type TI.34)

Add 1 oz. for every 2" of stem length

#### Dampening

Inert gel to minimize pointer oscillation

#### Warranty

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

## Optional Extras

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

## STANDARD RANGES

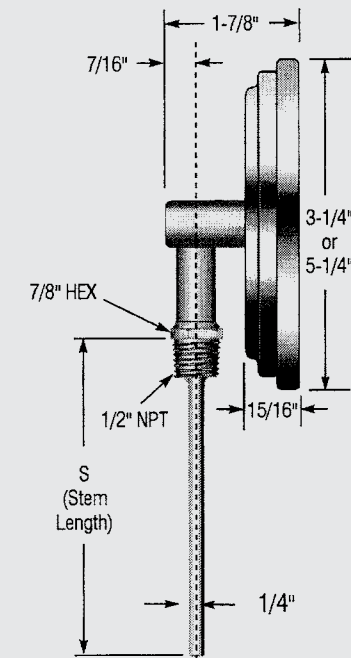
Fahrenheit	Dual Scale F & C	Celsius
Single Scale	F Outer, C Inner	Single Scale
-100/150 F	-100/150 F & -70/70 C	-50/50 C
-40/120 F	40/120 F & -40/50 C	-20/120 C
0/140 F	0/140 F & -20/60 C	0/50 C <sup>1</sup>
0/200 F	0/200 F & -15/90 C	0/100 C
0/250 F	0/250 F & -20/120 C	0/150 C
20/240 F	20/240 F & -5/115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

<sup>1</sup>Minimum stem length 4" for Type 34

<sup>2</sup>Not recommended for continuous service over 800°F (425°C)

## Dimensions

### Standard versions



Bottom Connected (Types 34 & 54)

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)

WIKA Type	DIAL SIZE	A	B	S (Stem Length)
34	3" (76.2 mm)	3-1/4" (82.6 mm)	1-7/8" (47.6 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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