# Sanitary Bimetal Thermometer – Process Version per ASME B40.200 and ASME BPE Model TG58SA

**Applications** 

- Accurate temperature measurement for biotechnology, life sciences, pharmaceutical, food, beverage, cosmetic and water industries
- Sanitary Tri-Clamp® process connection for fast installation and removal
- Processes requiring cleaning by SIP, CIP
- Washdowns requiring hermetic seal

## **Product features**

- Sanitary Tri-Clamp® process connection 3/4" through 2" in accordance with ASME BPE (Hygienic clamp)
- All stainless steel construction
- 316L stainless steel process wetted surfaces, Ra ≤ 20µin (Ra ≤ 0.51µm), in accordance with ASME BPE designation SF1
- 3-A approved
- Hermetically sealed per ASME B40.200
- Accuracy of ±1% of full scale
- External zero adjustment
- 7 year warranty

## **Specifications**

#### **Dial Sizes**

3" nominal (76mm) or 5" nominal (127mm)

### Accuracy

±1% of full scale per ASME B40.3 Grade A

### **Process Connection:**

3/4" Tri-Clamp® up to 2" Tri-Clamp® per ASME BPE (3/4"=Type A & 1" and larger=Type B)

## **Temperature Ranges:**

-100 °F (-70 °C) to +400 °F (+200 °C)

#### **Standard Scales:**

Single; Fahrenheit, °F or Celsius °C - Dual °F/°C; Fahrenheit (outer scale) and Celsius (inner scale)

#### **Working Range:**

Steady: Full scale value
Short time: 110% of full scale value

#### Over/Under Range Protection:

 $\leq$  +500 F (+260 C): Temporary up to 50% of total span  $\geq$  +500 F (+260 C): Continuous to +800 F (+427 C) or intermittent up to +1000 F (+538 C)

Datasheet TM58.01



Thermometer TG58SA

#### **Clamp Connection:**

316L stainless steel, Ra  $\leq$  20 $\mu$ in (Ra  $\leq$  0.51 $\mu$ m)

#### **Maximum Pressure Rating:**

365 psig (static or dynamic) or process connection clamp rating, lower of these two values

#### **Measuring Element:**

Bi-metal helix

## Stem:

316L stainless steel, Ra  $\leq$  20µin (Ra  $\leq$  0.51µm), Ø 0.25", length from 2.5" up to 15"

## Case:

304 stainless steel, hermetically sealed, NEMA 4X (IP 66)

#### Window

Polycarbonate (LEXAN w/trademark logo)

#### Pointer:

Black aluminum

## **External Zero Adjustment:**

Slotted hex head on back of case

#### Dial:

White aluminum with black markings, anti-parallax

WIKA

Part of your business

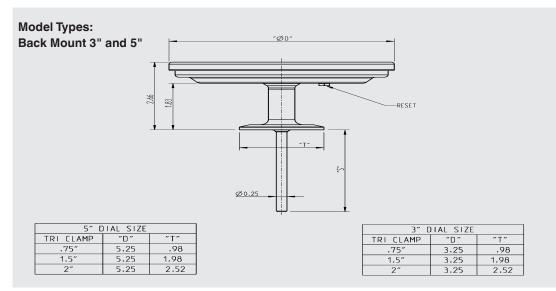
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## **Optional Extras**

- Window material: Instrument glass or safety glass
- Special scales and dial markings
- Min/Max pointer
- Longer stem lengths, approx. Ra ≤ 32µin (Ra ≤ 0.80µim) compliant with 3-A sanitary standards
- Certificates
  - Calibration, NIST
  - Material traceable w/ mill certificates, wetted surfaces
  - Surface finish

STANDARD RANGES	
Fahrenheit Single Scale	Celsius Single Scale
-100/150 °F	-50/50 °C
-40/120 °F	-20/120 °C
0/140 °F	0/50 °C
0/200 °F	0/100 °C
0/250 °F	0/150 °C
20/240 °F	0/200 °C
25/125 °F	
50/300 °F	
50/400 °F	

## **Dimensions**



Stem Lengths	
2½" (63.5 mm)	
4" (101.6 mm)	
6" (152.4 mm)	
9" (228.6 mm)	
12" (304.8 mm)	
15" (381.0 mm)	

