

MICRO Bi-Metal Temperature gauges are having helically shaped bimetal strip, which is used to convert temperature change in to mechanical displacement. The Strip consists of two strips bonded together throughout the length of different metals having different coefficient of thermal expansion, which forces the flat strip to bend one way when heated and in the opposite direction when cooled proportional to change in temperature. These gauges are simple in construction yet rugged and making it reliable measuring instrument across the industries to measure temperature.



TEMPERATURE GAUGES

Technical Specifications: (Confirming to ASME B40.3 & EN 13190)



- **Nominal size :**
Ø 63, 100 & 150 mm
- **Accuracy :**
± 1.6% of FS (± 1% of FS Optional)
- **Case & Bezel :**
SS 304 case with Snap Action bayonet lock type bezel (SS 316 Optional)
- **Ingress Protection :**
IP 65 as per EN 60 529 or IS/IEC 60 529
IP 68 as per IS/IEC 60 529 for Ø 100 & 150 mm - Optional
- **Sensor element :**
Bi-Metal strip in Helix form
- **Stem Material :**
SS 304 / SS 316 / SS 316L
- **Stem Length :**
55 mm (Min.) to 1000 mm (Max.),
Other on Request
- **Stem Diameter :**
6 / 8 / 10 / 12 mm
- **Over Range Protection :**
125 % of FS
- **Dial :**
Aluminium – Pre-coated White with black marking
- **Pointer :**
Aluminium – Black finish Center Zero Adjustment
- **Window :**
4 mm thick Toughened Glass
(Safety / Shatter Proof Optional)
- **Joints :**
Argon welded
- **Sealing gasket :**
Neoprene Rubber (EPDM Optional)
- **Process Connection :**
Adjustable Type for Bottom Connection
Fix Type standard for Back Connection
(Adjustable Optional)

1/4" / 3/8" / 1/2" BSP / NPT / BSPT (Male),
M20 X 1.5 (Male) Other Connection on Request
- **Type of mounting :**
Bottom Connection Direct Mounting
Back Connection Direct Mounting
Every Angle Mounting
- **Scale range :**
-30°C ... +50°C to 600°C or Equivalent °F
- **Optional Available features :**
 - Liquid Filling Case
 - Dual Scale in °C & °F, Customized Scale or logo
 - TC Connection
 - External Zero Adjustment
 - Alarm Electrical Contact
 - Thermowells

APPLICATION

- Domestic & Industrial Heating System
- Hot Water Boiler
- Power Plants
- Food & Beverage Industries
- Pharmaceutical Industries etc ...