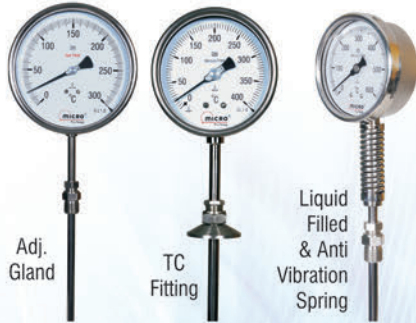


MICRO Gas Filled or Mercury Filled temperature gauge consist of closed system incorporating Stem (Bulb), Capillary and Bourdon Tube housed in a stainless steel housing. The complete closed system is filled with inert gas or mercury under pressure. A change in temperature causes the change in pressure of closed system enable deflection of bourdon tube. The deflection of bourdon tube thus caused is transmitted to circular rotating pointer on a dial scale through sector & gear mechanism & is proportional to change in temperature. A bimetal element is fitted in between the bourdon tube and movement to compensate the fluctuation of ambient temperature of housing. The robust construction of these gauges and all stainless steel components makes it suitable for extreme measuring conditions and are used across the industries without limitations.



TEMPERATURE GAUGES

Technical Specifications: (Confirming to ASME B40.4 & EN 13190)



Bottom Entry Direct Mounting



Surface Mounting with Capillary Extn.



- **Nominal size :**
Ø 63, 100, 115, 150, 200 & 250 mm
- **Accuracy :**
±1% of FS
- **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 :**
Mercury / Inert Gas Actuated
- **Stem Material :**
SS 316
- **Stem Length :**
110 mm (Min.) to 600 mm (Max.)
Other on Request
- **Stem Diameter :**
6 / 8 / 10 / 12 / 14 mm
- **Micro Bore Capillary Material :**
M.S. / SS 316
- **Capillary Protection :**
SS 304 Flexible
- **Additional Capillary Protection :**
SS 304 Flexible Armour / PVC
- **Capillary Length :**
1 Meter to 40 Meter (Max.)
- **Over Range Protection :**
125 % of FS
- **Dial :**
Aluminium – Pre-coated White with black marking
- **Pointer :**
Aluminium – Black finish Center / Micro Zero Adjustment
- **Window :**
Toughened Glass (Safety / Shatter Proof Optional)
- **Joints :**
Argon welded
- **Sealing gasket :**
Neoprene Rubber (EPDM Optional)
- **Process Connection :**
1/4" / 3/8" / 1/2" BSP / NPT / BSPT / M20 X 1.5 (Male - Adjustable Gland throughout the length) Other Connection on Request
- **Type of mounting :**
Bottom Connection Direct Mounting
Back Connection Direct Mounting
Every Angle Mounting
Bottom connection Surface Mounting with Capillary Extension
Back Connection Panel Mounting with Capillary Extension
- **Scale range :**
-30°C ... +50°C to 650°C or Equivalent °F
- **Optional Available features :**
 - Liquid Filling Case
 - Dual Scale in °C & °F, Customized Scale or logo
 - TC Connection
 - Anti Vibration Spring
 - Electrical Contact
 - Thermowells

APPLICATION

- Fertilizers & Refineries
- Chemicals & Petro Chemicals
- Power Plants
- Pharmaceutical Industries
- Filter & Liquid Control Systems
- Other Process Industries etc ...