

MICRO Gas/Mercury Filled temperature gauges consist of closed system incorporating Stem (Bulb), Capillary, and bourdon tube 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.

ELECTRIC CONTACT GAS FILLED IN STEEL

TEMPERATURE GAUGES

Item No: 01

Model: 150S - EC - GT - S66 - SM(Cap) - 12N(M)

TECHNICAL SPECIFICATION (Confirming to ASME B40.4 & EN 13190)



Electric Contact
with DIN Connector

Electric Contact
with Flexible wire

Electric Contact
Potential free
5Amp Microswitch

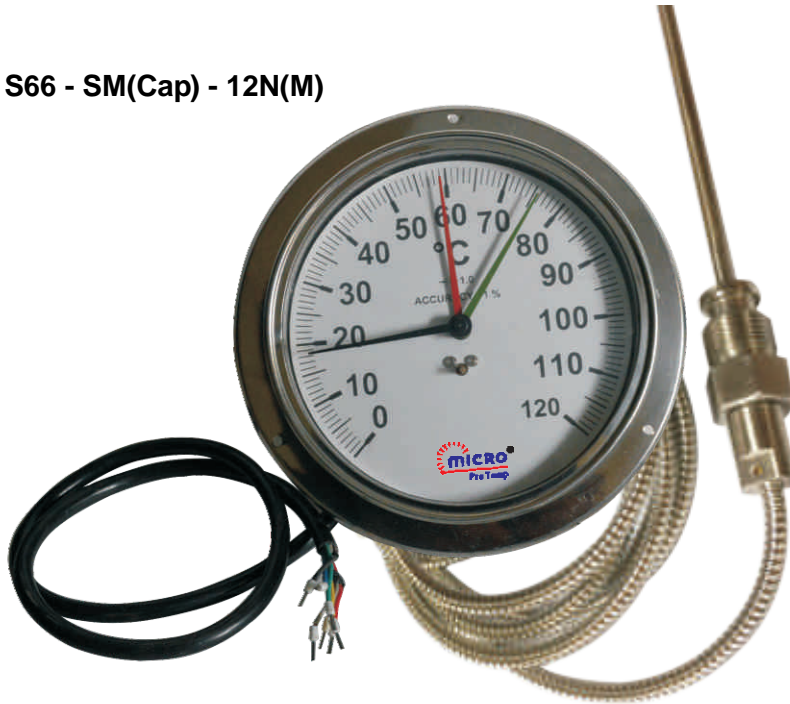
- **Nominal Size :**
Ø 100 & 150 mm
- **Accuracy :**
Gauge : ±1% of FS
Switch : ±2% of FS
- **Case & Bezel :**
SS 304 case with Snap Action bayonet lock type bezel (SS 316 Optional)
- **Ingress Protection :**
IP 65 as per EN 60529 or IS/IEC 60529
IP 68 as per IS/IEC 60529 - Optional
- **Sensor Element :**
Mercury / Inert Gas actuated (Nitrogen N₂)
- **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 Armor Flexible
- **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 connections on request
- **Type of Mounting :**
Bottom Connection Direct Mounting
Bottom Connection Surface Mounting with Capillary
Extension
Back Connection Direct Mounting
Back Connection Panel Mounting with Capillary
Extension
Every Angle Mounting
- **CONTACT DETAILS :**
- **Contact Type :**
Magnetic Snap Action Silver Nickel Alloy (Standard)
Potential Free Micro Switch SPDT - On Request
- **No of Contacts & Configuration :**
Single (NO / NC), Double (1 NO + NC, 1 NC + NO,
2NO, 2 NC)
- **Contact Rating :**
380 V AC / DC, 50 VA, 1 Amp, (Standard)
5 Amp @ 230 V AC - On Request
- **Contact Set Point :**
Between 10% to 90% of FS
- **Optional Available Features :**
 - Dual Scale in °C & °F
 - Customized Scale or Logo
 - Thermowells

APPLICATION

- » Monitoring
- » Controlling & Regulating Industrial Process by using contact signals.

Item No: 01

Model: 150S - EC - GT - S66 - SM(Cap) - 12N(M)



TECHNICAL SPECIFICATIONS

- » **Nominal Size -**
Ø 150 mm
- » **Accuracy -**
Gauge : $\pm 1\%$ of FS Switch : $\pm 2\%$ of FS
- » **Case & Bezel -**
SS 304 Snap Action bayonet lock type case
- » **Ingress Protection -**
IP - 65 as per EN 60 529 & IS / IEC 60 529
- » **Sensing Element -**
Inert Gas Actuated (Nitrogen N₂)
- » **Stem Material -**
SS 316
- » **Stem Diameter -**
Ø 10 mm
- » **Stem Length -**
250 mm
- » **Movement -**
SS 304 with Bi-Metal connector for temp. compensation
- » **Micro Bore Capillary (Transmitting) -**
SS 316
- » **Capillary Protection -**
Flexible SS 316 Capillary
- » **Additional Capillary Protection -**
Flexible SS 304 Armor
- » **CONTACT DETAILS -**
- » **Contact Type -**
Potential Free Snap Action Micro Switch
- » **No. of Contacts & Configuration -**
1 SPDT
- » **Contact Rating -**
5 Amp @ 230 V AC
- » **Contact Setting -**
Adjustable between 10 to 90% of FS through Knob provided on Window
- » **Terminal -**
Through 1 meter Cable Terminal box
- » **Mounting -**
Bottom Connection Surface Mounting
- » **Process Connection -**
1/2"NPT (M) adjustable throughout stem length
- » **Dial -**
Aluminium, Pre coated white with black marking over 270°
- » **Over Range Protection -**
125% of FS
- » **Pointer -**
Aluminium, Black color Micro Zero Adjustment
- » **Window -**
Shatter proof glass
- » **Joints -**
Argon Welded
- » **Gasket -**
Neoprene
- » **Blow Off Disc -**
Neoprene, Provided at back of Case
- » **Range -**
0 - 150°C