Temperature & Pressure Gauges

- Bimetal Thermometers
- Gas/Liquid Expansion Thermometers
- Electric Contact Thermometer
- Bourden Tube Pressure Gauges
- Sealed Diaphragm Pressure Gauges
- Compact Sealed Diaphragm Pressure Gauges
- Schaffer Diaphragm Pressure Gauges
- Capsule Diaphragm Pressure Gauges
- Master Gauge
- Homogenizer Gauge
- Mud Pressure Gauge
- Electric Contact Pressure Gauges

www.tempsens.com
**Technical Specifications**

**BMT - (BIMETALLIC THERMOMETER)**

- **Dial Size**: 63 / 100 / 150 mm
- **Range**: -40°C...400°C
- **Reference Standard**: EN13190 / IS13211 / ASME B40.3
- **Sensing Elements**: Bi-Metal Helix
- **Stem Length**: As per customer requirement (Refer Table-2 for minimum stem length)
- **Stem Diameter**: 6, 8, 10, 12 mm
- **Connection**: 1/4", 3/8", 1/2" BSP/NPT (M) adjustable throughout stem length
- **Mounting**: Lower(Bottom), Back, Every angle
- **Case & Bezel**: SS304 with bayonet bezel
- **Stem**: SS316
- **Window**: Shatterproof / Safety Glass, Toughened glass,
- **Dial**: Aluminum, Black graduation on white background
- **Protection class**: IP55/IP65

**Features**

- Fast response, High repeatability, Low hysteresis
- Rugged stainless steel construction
- With or without thermowell
- Accuracy: Class 1 as per EN13190

**Optional Extras**

- External zero adjustment
- Scale °F, K, Dual Scale °C/°F
- Over range protection 130% FSD

**Applications**

- Process and Petrochemical Industries
- Machine & apparatus construction
- Food & Beverage Industries

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**GET/LET - (GAS/LIQUID EXPANSION THERMOMETER)**

- **Dial Size**: 100 / 150 mm
- **Range**: -40°C...600°C
- **Reference Standard**: EN13190/IS13211
- **Sensing Elements**: Gas/Mercury-in-Steel
- **Stem Length**: As per customer requirement (Refer Table-2 for minimum stem length)
- **Stem Diameter**: 6, 8, 10, 12 mm
- **Connection**: 1/4", 3/8", 1/2" BSP/NPT (M) adjustable throughout stem length
- **Mounting**: Lower(Bottom), Back, Back Panel, Bottom Surface Mount, Back Bracket
- **Case & Bezel**: SS304, With bayonet bezel
- **Movement**: SS304
- **Stem**: SS316
- **Capillary**: SS316
- **Capillary Length**: As per customer requirement
- **Capillary Diameter**: Min. 6 mm
- **Window**: Shatterproof / Safety Glass, Toughened glass, Acrylic
- **Pointer**: Aluminum
- **Dial**: Aluminum, Black graduation on white background
- **Protection Class**: IP55/IP65

**Features**

- Use of inert gas
- Rigid stem or capillary type
- Rugged stainless steel construction
- Dry or liquid (Glycerin/Silicon Oil) filled
- With or without thermowell
- Suitable for sanitary application
- Accuracy: Class 1 as per EN13190

**Optional Extras**

- External zero adjustment
- Scale °F, K, Dual Scale °C/°F
- Capillary SS Armored
- Capillary SS Armored with PVC Coverage
- Over range protection 130% FSD

**Applications**

- Process and Petrochemical Industries
- Machine & apparatus construction
- Food & Beverage Industries
**TEMPERATURE GAUGE ORDERING CODE**

**Type**
- BMT - (Bi Metallic Thermometer)
- GET - (Gas Expansion Thermometer)
- LET - (Liquid Expansion Thermometer)

**Connection Orientation**
- L – (Lower)
- B – (Back)
- E – (Every angle)

**Size**
- 063 - (63mm)
- 100 - (100mm)
- 150 - (150mm)

**Range**
- -40/60
- -40/40
- -30/70
- -30/50
- -30/30
- -20/120
- -20/60

**Measuring Unit**
- C - (Degree Celsius)
- F - (Degree Fahrenheit)

**Stem Diameter**
- 06 (6mm)
- 08 (8mm)
- 10 (10mm)
- 12 (12mm)

**Stem Length**
- 65 to 600

**Capillary Length**
- N - (Not required)
- S - (Capillary SS armored)
- P - (Capillary SS armored with PVC covering)

**Process Connection Type**
- Ad – (Adjustable)
- Fx – (Fixed)

**Optional Extras**
- EZ (External Zero Adjustment)
- GC (Dampening liquid glycerin filled)
- SO (Dampening liquid silicon oil filled)
- DS (Dual Scale)
- OS (316SS Case & bezel)
- EC (Electric contacts)

**Example**
BMT-B-100-0/200-C-08-150-N-Fx-½” NPT M-SO

GET-L-100-0/500-C-08-500-S4-Ad½” NPT M-SO/EC

**Table - 1**
Nominal Range, Measuring Ranges & Limits of Error as per EN 13190

<table>
<thead>
<tr>
<th>Nominal Range (°C)</th>
<th>Scale Spacing (°C)</th>
<th>Measuring Range (°C)</th>
<th>Limits of Error (°C)</th>
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<td>-30 to +50</td>
<td>1</td>
</tr>
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<td>-30 to +30</td>
<td>1</td>
</tr>
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<td>1</td>
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<td>1</td>
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<td>-10 to +50</td>
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<td>1°C</td>
<td>10 to 90</td>
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<td>5°C</td>
<td>50 to 450</td>
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<td>10°C</td>
<td>100 to 500</td>
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**Table - 2**
Range, Stem Outer Dia & Stem Length Selection Table

This table indicates the minimum and maximum stem lengths per stem diameter per range. Lower values indicated the minimum immersion length selection. (Required stem length out of this table-Consult with us)

<table>
<thead>
<tr>
<th>Nominal Range (°C)</th>
<th>Stem Length for $\phi S = 6mm$</th>
<th>Stem Length for $\phi S = 8,10mm$</th>
<th>Stem Length for $\phi S = 12mm$</th>
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<tr>
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<td>600</td>
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<td>600</td>
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<td>120</td>
<td>600</td>
<td>65</td>
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<td>65</td>
<td>600</td>
<td>65</td>
</tr>
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<td>600</td>
<td>65</td>
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<td>600</td>
<td>65</td>
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<tr>
<td>0 to 600</td>
<td>65</td>
<td>600</td>
<td>65</td>
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</tbody>
</table>
BOURDEN GAUGES

PB1 - (UTILITY PRESSURE GAUGE)

Features
- Accuracy: ±1.6% FSD
- Over-range Protection: 130% FSD
- Ingress Protection: IP55, IP65 (filled)

Optional Extras
- Ranges in other Units like Kpa, Mpa, PSI, MWC
- Dampening Liquid Glycerin/Silicon Oil filled
- Special dial design
- NACE & IBR Certifications

Applications
- Machine & apparatus construction
- Water, air & gas, OEM low cost

Technical Specifications
- Dial Size: 40 / 50 / 63 / 80 / 100 / 150 / 250 mm
- Range: Vacuum, Compound, 0….1 Kg/cm² to 0….1000 Kg/cm²
- Ambient Temperature: -40 to 80 °C
- Standard: IS3624, EN 837
- Configuration: Bourdon Tube
- Shape of Bourdon: "C" Type / Helix Type
- Connection: 1/8", 1/4", 3/8", 1/2" BSP/NPT (M/F)
- Mounting: Bottom / Back direct, Bottom Surface, Back Panel, Back Bracket Mounting
- Joint: Soldering
- Case & Bezel: Drawn Steel Black Coated
- Movement: Brass
- Bourdon: Brass
- Socket: Brass
- Window: Shatterproof / Safety Glass, Toughened glass, Acrylic
- Pointer: Aluminum
- Dial: Aluminum, Black Graduation on White background

PB2 - (INDUSTRIAL HEAVY DUTY PRESSURE GAUGE)

Features
- Accuracy: ±1.6% FSD
- Over-range Protection: 130% FSD
- Ingress Protection: IP65, IP65 (filled)

Optional Extras
- Ranges in other Units like Kpa, Mpa, PSI, MWC
- Dampening Liquid Glycerin/Silicon Oil filled
- Special dial design
- NACE & IBR Certifications
- PTFE Coating

Applications
- Machine & apparatus construction
- Chemical & petrochemical industries
- Food stuff & beverage industries
- Plastics & paper industries

Technical Specifications
- Dial Size: 40 / 50 / 63 / 80 / 100 / 150 / 250 mm
- Range: Vacuum, Compound, 0….1 Kg/cm² to 0….1500 Kg/cm²
- Ambient Temperature: -40 to 300 °C
- Standard: IS3624, EN 837
- Configuration: Bourdon Tube
- Shape of Bourdon: "C" Type / Helix Type
- Connection: 1/8", 1/4", 3/8", 1/2" BSP/NPT (M/F)
- Mounting: Bottom / Back direct, Bottom Surface, Back Panel, Back Bracket Mounting
- Dampening Liquid: Glycerin/ Silicon Oil
- Joint: Argon Arc Welded/tig welded
- Case & Bezel: AISI SS304, Self Color Finish
- Movement: AISI SS304
- Bourdon: AISI SS316
- Socket: AISI SS316
- Window: Shatterproof / Safety Glass, Toughened glass, Acrylic
- Pointer: Aluminum Black Colored Micrometer zero adjustable
- Dial: Aluminum, Black Graduation on White background
- Blow off Disc: Neoprene
**PD SERIES - (DIAPHRAGM TYPE PRESSURE GAUGES)**

### Features
- Ambient Temperature: -40 to 300°C
- Over-range Protection: up to 130% FSD
- Ingress Protection: IP55, IP65 (filled)
- Accuracy ±1.6% FSD or ±1% FSD

### Optional Extras
- Ranges in other Units like Kpa, Mpa, PSI, MWC
- Dampening Liquid Glycerin/Silicon Oil filled
- Special dial design
- NACE & IBR Certification

### Variants
- PD1 (Sealed Diaphragm Pressure Gauge)
- PD2 (Compact Sealed Diaphragm Pressure Gauge)
- PD3 (Schaffer Diaphragm Pressure Gauge)
- PD4 (Triclover Pressure Gauge)
- PD5 (Flanged Diaphragm Pressure Gauge)
- PD6 (Capsule Diaphragm Pressure Gauge)

### Technical Specifications
- **Dial Size**: 100/150 mm
- **Range**: Vacuum, Compound, 0...1 Kg/cm² to 0...14 Kg/cm², 0...500 mm/WC to 0...10000 mm/WC
- **Standard**: IS3624, EN837
- **Configuration**: Sealed Diaphragm, Compact Sealed Diaphragm, Schaffer Diaphragm, Capsule Diaphragm
- **Optional**: PTFE/Teflon coating/lining
- **Connection**: 1/4", 3/8", 1/2" BSP/NPT (M/F), Flanged
- **Mounting**: Bottom/Back Direct/Flanged, Triclover clamp
- **Joint**: Argon Arc Welded
- **Case & Bezel**: AISI SS304, Self Color Finish
- **Diaphragm**: AISI SS316
- **Socket**: AISI SS316
- **Window**: Shatterproof/Safety Glass, Toughened glass, Acrylic
- **Pointer**: Aluminum Black Colored Micrometer zero adjustable
- **Dial**: Aluminum, Black graduation on White background
- **Blow off Disc**: Neoprene

### Applications
- Chemical & Petrochemical Industries
- Food Stuff & Beverage Industries
- Plastic & Paper Industries
- Machine & Apparatus Industries

---

**MA - (MASTER GAUGE)**

### Technical Specifications
- **Dial Size**: 150/250 mm
- **Range**: Vacuum to 1500 Kg/cm²
- **Accuracy**: ±0.25%, ±0.50% FSD
- **Ambient Temp.**: -40 to 300 °C
- **Standard**: IS:3624, EN 837
- **Configuration**: Bourdon Tube
- **Pointe**: Leaded brass, black coated
- **Gasket**: Nitril (Food Grade) Seal
- **Element**: Bourdon Tube SS316
- **Mounting**: Bottom connection direct mounting

**HO - (HOMOGENIZER GAUGE)**

### Technical Specifications
- **Dial Size**: 100/150 mm
- **Range**: 0...1000 Kg/cm²
- **Configuration**: Diaphragm
- **Diaphragm**: SS316L Tig Welded Bright Finish
- **Pointer**: Led Brass, black coated
- **Gasket**: Nitril (Food Grade) Seal
- **Wetted parts**: SS316
- **Mounting**: Bottom connection direct mounting

**MU - (MUD PRESSURE GAUGE)**

### Technical Specifications
- **Nominal Dia**: 100/150 mm
- **Range**: 0...1000 Kg/cm²
- **Accuracy**: ±1% FSD (1.6% in case of filled)
- **Construction**: Heavy duty steel construction
- **Connection**: 1", 3/2" and 2" BSP, API and NPT connections
- **Mounting**: Bottom connection direct mounting
- **Element**: Bourdon Tube SS316
- **Case**: SS304
- **Bezel**: SS304
### ELECTRIC CONTACT GAUGES

- **PB1 (Utility Pressure Gage)**
- **PB2 (Industrial Heavy duty Pressure Gauge)**
- **PD1 (Sealed Diaphragm PG)**
- **PD2 (Compact Sealed Diaphragm PG)**
- **PD3 (Schaffer Diaphragm PG)**
- **PD4 (Triclover PG)**
- **PD5 (Flanged Diaphragm PG)**
- **PD6 (Capsule Diaphragm PG)**
- **MA (Master Gauge)**
- **HO (Homogenizer Gauge)**
- **MU (Mud Pressure Gauge)**

#### Connection Orientation
- LO (Lower entry direct mounting)
- LS (Lower entry surface mounting)
- BD (Back entry direct mounting)
- BB (Back entry bracket mounting)

#### Size
- 40 - (40mm)
- 50 - (50mm)
- 63 - (63mm)
- 80 - (80mm)
- 100 - (100mm)
- 150 - (150mm)
- 250 - (250mm)

#### Range
- Vacuum (V) to Max
- 0 to Max

#### Optional Extras
- EZ (External Zero Adjustment)
- GC (Dampening liquid glycerin filled)
- SO (Dampening liquid silicon oil filled)
- DS (Dual Scale)
- OS (316SS Case & bezel)
- EC (Electric contacts)

#### Measuring Unit
- K (Kg/Cm²)
- B (BAR)
- P (PSI)

#### Technical Specifications
- Electric Contacts are available in both kind of Gauges:
  - Electric Contact Pressure Gauge
  - Electric Contact Temperature Gauge
- **Electric Contacts Available**: 1 NO, 1 NC, 1NO + 1NC, 2 NO, 2 NC, 1NO + 2NC, 2NO + 1NC
- (NO : Normally Open; NC : Normally Closed)
- **Contacts Rating**: 220 V AC/DC, 1 Amp Max
- Color Codes of wire: Green, Red and Yellow
- All the specifications same as heavy duty pressure gauge & mercury filled temperature gauge for electric contact pressure & temperature gauge respectively.

### MRP GAUGE

- **MRP GAUGE** (Maximum Reading Pointer Pressure Gauge) is designed to show highest Pressure Value of measurement throughout its operation.
- All the specifications as per Heavy duty pressure gauge

#### Optional Extras
- EZ (External Zero Adjustment)
- GC (Dampening liquid glycerin filled)
- SO (Dampening liquid silicon oil filled)
- DS (Dual Scale)
- OS (316SS Case & bezel)
- EC (Electric contacts)

#### Measuring Unit
- K (Kg/Cm²)
- B (BAR)
- P (PSI)

#### Technical Specifications
- Stainless Steel Construction
- An Ideal Tester to calibrate Pressure Gauges for up to 2000 Kg/cm²
- An Ideal Tester to calibrate Vacuum Pressure Gauges
- Can be used for Pneumatic and Hydraulic mediums
- Heavy Duty material construction, Low Weight and Compact Design makes it Portable Tester

### COMPARISON TEST PUMP

- Stainless Steel Construction
- An Ideal Tester to calibrate Pressure Gauges for up to 2000 Kg/cm²
- An Ideal Tester to calibrate Vacuum Pressure Gauges
- Can be used for Pneumatic and Hydraulic mediums
- Heavy Duty material construction, Low Weight and Compact Design makes it Portable Tester

### PRESSURE GAUGE ORDERING CODE

**Example**

PB1-LO-100-0/21-K-DS-1/2" NPT M-GC
NEEDLE VALUE

Technical details

Connection: Provided threads as per stranded thread and also can be provided female to female or male to male and specified thread requirement

Material: SS316, SS304 Brass (Can be provided specific requirement)

Ordering Information: Material, thread connection and type

Pressure: 0 to 25-400 kg/cm² (Can be provided specific requirement)

Temperature: up to 300°C

GUAGE COCK

Technical details

Material of construction: SS316/304 Brass
Nominal working pressure: 210 bar

Seal: Teflon

Connection: Provided threads as per stranded thread and also can be provided female to female, male to male specified requirement

Features

Both round and square models available, Teflon seals (PTFE), available in 2-way vent hole type and 3-way cock

SNUBBER

Technical details

Nominal pressure: 0 to 10—1000 kg/cm²

Models: SN-01, SN-02, SN-03

Model: SN-01 for 1/4" BSP, M-10 Up to M-14 mm size (Can be provided specified thread requirement)

Model: SN-02 for 3/8" BSP, 1/2 NPT, 16 up to 200 mm size (Can be provided specified thread requirement)

Model: SN-03 can be provided specified requirement up to 1000 kg/cm² on specified requirement

Material: SS304/316 Brass (Can be provided specific requirement)

GAUGE SAVER

Technical details

Connection: Normally 1/2"NPT or BSP process connection male and 1/2" NPT or BSP instrument connection female (can be provided according to the specified requirement), Reliable over pressure protection, Simple use

Material: Stainless steel 316 and 304, Viton seals

SYPHONE TUBE

Technical details

Shape: Q or U

Material: Carbon steel, SS304/316 (In 1/2" and 3/8" NB with Schedule NB & 80)

Temperature: 500°C (Subject to pressure and schedule of the pipe)

Connection: 1/2" BSP, 1/2" NPT, 3/8" BSP, M-20 x 1.5, (Can be provided specified requirement)

Pressure: up to 600 kg/cm²

PRESSURE UNIT CROSS REFERENCE CHART

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<th>atms</th>
<th>in H₂O</th>
<th>mm H₂O</th>
<th>cm H₂O</th>
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DIAPHRAGM ASSEMBLY

Technical details

Connection: Standard thread and flange

Material: As per requirement

Ordering Information: SS316, SS304 and other, bar stock drilled and welded material, connection and flange

THERMOWELL

Technical details

Connection: Standard thread and flange

Material: As per requirement

Ordering Information: SS316, SS304 and other, bar stock drilled and welded material, connection and flange