

### APPLICATIONS

- Liquid & gaseous mediums
- Corrosive environments
- Oil & Gas applications
- Chemical & Petrochemical
- Food & Beverages
- Clean- air applications

### FEATURES

- Compact design
- Stainless steel measuring system
- Stainless steel case & ring
- Low pressure application (<0.6 bar)
- Zero adjustment on dial

## DESCRIPTION

### General

**Design :** EN 837-3

**Accuracy :**  $\pm 1.6\%$  of full scale

**Ambient temperature :** -40...+65°C

**Service temperature :** 150°C max.

**Pressure limits :** Steady pressure up to 75% of FS value

No over-pressure

**Weld joints :** TIG argon arc welding

### Material of construction

**Sensing element :** Capsule

**Case & Ring material :** AISI 304 SS (Bayonet type)

**Capsule & Shank :** AISI 316 SS ,

**Movement mechanism :** SS304 /COPPER ALLOY

**Dial :** Aluminum, black graduation on white background  
with zero adjustment on dial

**Pointer :** Fixed, aluminum, black powder coated

**Gaskets, Blow-off disc & filling plug :** Neoprene / NBR

**Window :** Sheet glass / Shatterproof Safety Glass



SS-CAPSULE PRESSURE GAUGE, TMC09-1

### Standard version

**Dial size :** DN63 / DN100 / DN150

**Range :** 25 mbar...0...600 mbar

**Mounting pattern :** Direct, Bottom connection

**Process connection :** ¼" OR ½" NPT (M) / BSP (M)

**Ingress protection :** IP 65

**Execution :** Dry

### Glycerin

**Accuracy :**  $\pm 4.0\%$  of full scale

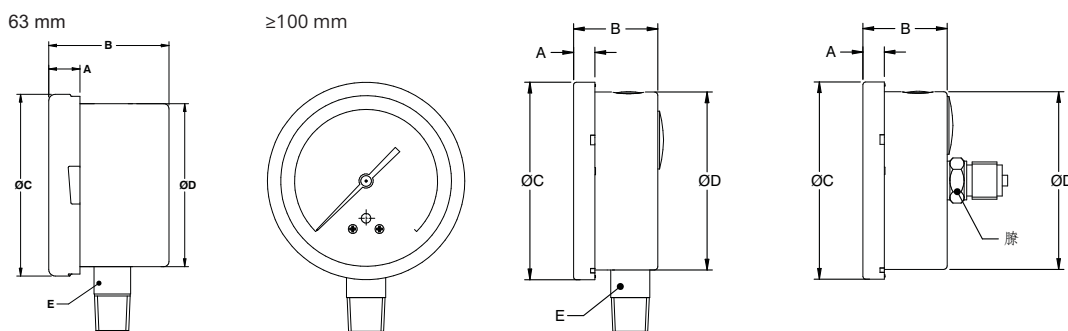
**Ranges :**  $\geq 100$  mbar

**Dampening liquid :** Glycerin + Water [20%+80%]

### Temperature effect

When temperature of the measuring system deviates from reference temperature (+20°C) :  
max error  $\pm 0.4\%$  / 10K of true scale value.

## DIMENSIONAL DRAWING



### NOTES:

1. Drawing not to scale. All dimensions are in mm.
2. For other mounting details, Panel cut-out dimensions, kindly contact factory.

| NS  | A  | B  | ØC  | ØD   | E      |
|-----|----|----|-----|------|--------|
| 63  | 12 | 43 | 70  | 62.5 | SQ.14  |
| 100 | 12 | 90 | 111 | 100  | A/F-22 |
| 150 | 15 | 90 | 161 | 149  | A/F-22 |

## ORDERING CODES

| MODEL              |                                   |                                                                                                                                                                                |     |                                              |  | TMC09-1    |                         |  |
|--------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------------|--|------------|-------------------------|--|
| TMC09-1            |                                   | SS-Capsule Pressure                                                                                                                                                            |     |                                              |  |            |                         |  |
| Gauge DIAL SIZE    |                                   |                                                                                                                                                                                |     |                                              |  | D4         |                         |  |
| D2                 | 2.5" / 63 mm                      |                                                                                                                                                                                | D4  | 4" / 100 mm                                  |  | D6         | 6" / 150 mm             |  |
| MOUNTING           |                                   |                                                                                                                                                                                |     |                                              |  | M1         |                         |  |
| M1                 | Direct bottom                     |                                                                                                                                                                                | M2  | Direct bottom with Back flange               |  | M5         | Direct center back      |  |
| M9                 | Center back with front flange     |                                                                                                                                                                                | M10 | Direct center back with panel mounting clamp |  |            |                         |  |
| CONNECTION         |                                   |                                                                                                                                                                                |     |                                              |  | P08        |                         |  |
| P04                | ¼" NPT (M)                        |                                                                                                                                                                                | P08 | ½" NPT (M)                                   |  | P20        | M20 X 1.5 mm (M)        |  |
| P03                | ¼" BSP (M)                        |                                                                                                                                                                                | P05 | 3/8" BSP (M)                                 |  | P07        | ½" BSP (M)              |  |
| CASE FILLING       |                                   |                                                                                                                                                                                |     |                                              |  | F1         |                         |  |
| F1                 | Dry                               |                                                                                                                                                                                |     |                                              |  |            |                         |  |
| WETTED PARTS       |                                   |                                                                                                                                                                                |     |                                              |  | S02        |                         |  |
| S02                | AISI 316 SS                       |                                                                                                                                                                                |     |                                              |  |            |                         |  |
| INGRESS PROTECTION |                                   |                                                                                                                                                                                |     |                                              |  | I1         |                         |  |
| I1                 | IP 65                             |                                                                                                                                                                                |     |                                              |  |            |                         |  |
| RANGE              |                                   |                                                                                                                                                                                |     |                                              |  | 0-100 mbar |                         |  |
| 0-100 mbar         |                                   | Please mention range required with the measurement unit<br>[TMC offer in all types of National & International measurement units, e.g. mmH2O, etc. with single or dual scales] |     |                                              |  |            |                         |  |
| OTHER OPTIONS      |                                   |                                                                                                                                                                                |     |                                              |  | E16/E27    |                         |  |
| E16                | 5 - point calibration certificate |                                                                                                                                                                                | E31 | Custom designed dial                         |  | E32        | Dial tag marking        |  |
| E28                | SS tag plate, AISI 316 SS         |                                                                                                                                                                                | E27 | SS tag plate, AISI 304 SS                    |  | E33        | AISI 316 SS case & ring |  |

Ordering Example : TMC09-1-D4.M1.P08.F1.S02.I1/0-100 mbar/E16/E27