



All models are rugged, totally self-contained, and allow the user to benefit from the improved efficiency and quality that goes with pressure monitoring.

The Gefran melt pressure gauge provides reliable, maintenance-free, localized pressure indication. The small capillary tube filled with a special medium isolates the gauge housing from potential thermal damage.

### MAIN FEATURES

- Economically priced
- 1.5 times overload capacity
- Easy-to-read display
- 1/2-20 UNF thread standard, M18 x 1.5 also available
- 15-5 PH stainless steel diaphragm with GTP+ coating standard (others available on request)
- No power required

**M50** The rigid stem configuration makes installation fast and easy.

**M51** The flexible configuration is designed for applications requiring further thermal isolation or where installation would be otherwise difficult or impractical.

**M52** The pressure/temperature configuration requires only one mounting hole for the measurement of both process values.

### TECHNICAL SPECIFICATIONS

|   |   |
|---|---|
| Nominal Accuracy including Linearity, Repeatability, Hysteresis | L <±1.0% FSO                                |
| Measurement Range   | 0–350 or 0–700 bar<br>0–5000 or 0–10000 psi |
| Maximum Overpressure  | 1.5 x FSO                                   |
| Measurement Principle   | Bourdon tube                                |
| Housing Temperature Range                                       | -30–85°C (-22–185°F)                        |
| Maximum Diaphragm Temperature                                   | 400°C (750°F)                               |
| Zero drift due to change in process temperature                 | 0.02 bar/°C<br>(15 psi/100°F)               |
| Material In Contact with Process Medium                         | Standard 15-5PH SS (GTP+ coated)            |
| Thermocouple (model M52)  | STD : type "J" (isolated junction)          |

FSO = Full Scale Output (output signal at nominal pressure)

### ACCESSORIES

#### Accessories

|                                 |      |
|---------------------------------|------|
| Mounting bracket.....           | SF18 |
| Dummy plug for 1/2-20UNF .....  | SC12 |
| Dummy plug for M18x1.5 .....    | SC18 |
| Drill kit for 1/2-20UNF.....    | KF12 |
| Drill kit for M18x1.5 .....     | KF18 |
| Cleaning kit for 1/2-20UNF..... | CT12 |
| Cleaning kit for M18x1.5 .....  | CT18 |

#### Thermocouple for M52 model

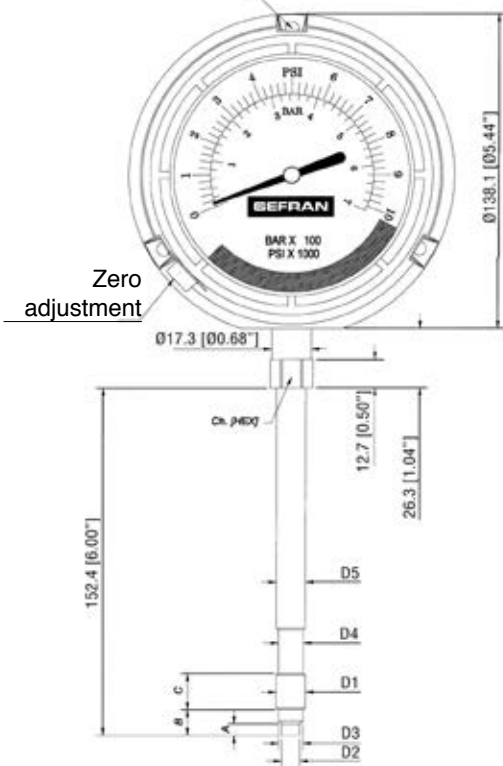
|                                  |         |
|----------------------------------|---------|
| Type "J" (153mm – 6" stem) ..... | TTER718 |
|----------------------------------|---------|



# MECHANICAL DIMENSIONS

**M50**

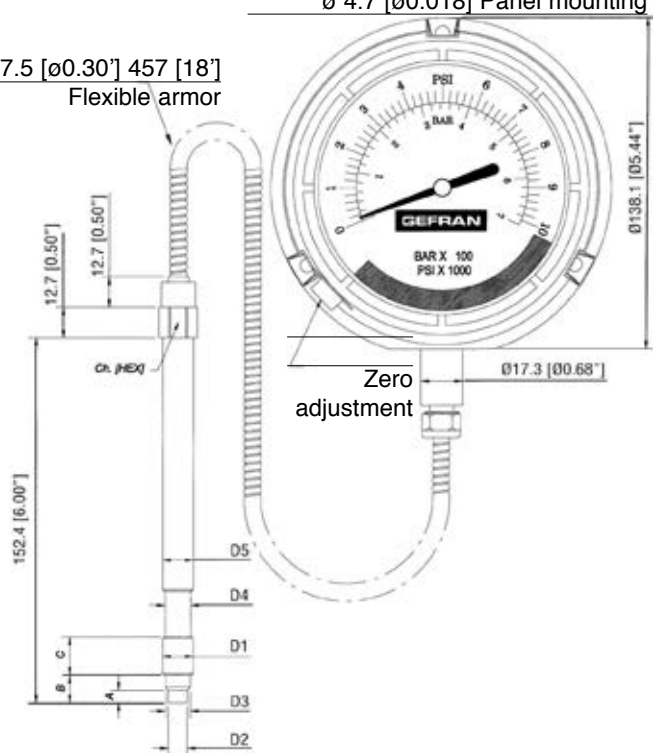
ø 4.7 [ø0.018] Panel mounting



**M51**

ø 4.7 [ø0.018] Panel mounting

ø7.5 [ø0.30"] 457 [18"]  
Flexible armor

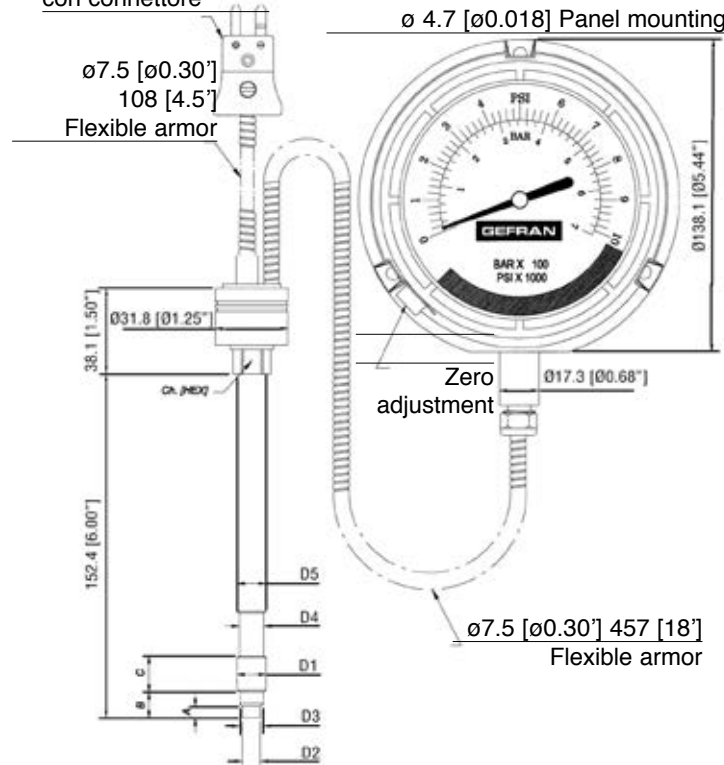


**M52**

ø 4.7 [ø0.018] Panel mounting

Termocoppia tipo J  
con connettore

ø7.5 [ø0.30"]  
108 [4.5"]  
Flexible armor



| D1          | 1/2-20 UNF                        |
|-------------|-----------------------------------|
| D2          | ø7.8 -0.05<br>[ø0.307" -0.002]    |
| D3          | ø10.49 ±0.025<br>[ø0.413" ±0.001] |
| D4          | ø10.67<br>[ø0.42"]                |
| D5          | ø12.7<br>[ø0.5"]                  |
| A           | 5.56 -0.26<br>[0.219" -0.01]      |
| B           | 11.4<br>[0.45"]                   |
| C           | 15.75<br>[0.62"]                  |
| Ch<br>[Hex] | 16<br>[5/8"]                      |

| D1          | M18x1.5                       |
|-------------|-------------------------------|
| D2          | ø10 -0.05<br>[ø0.394" -0.002] |
| D3          | ø16 -0.08<br>[ø0.630" -0.015] |
| D4          | ø16 -0.4<br>[ø0.630" -0.015]  |
| D5          | ø18<br>[ø0.71"]               |
| A           | 6 -0.26<br>[0.236" -0.010]    |
| B           | 14.8 -0.4<br>[0.580" -0.016]  |
| C           | 19<br>[0.75"]                 |
| Ch<br>[Hex] | 19<br>[3/4"]                  |

**NOTE :** dimensions refer to rigid stem length option "4" (153 mm – 6") and flex length option "D" (457mm – 18")

**WARNING :** For installation use a maximum tightening torque of 56 Nm(500 in-lb)

# ORDER CODE

M 5 - 0 - L - - - - - 000

| OUTPUT SIGNAL    |   |
|------------------|---|
| Mechanical Gauge | 5 |

| VERSION           |   |
|-------------------|---|
| Rigid Stem        | 0 |
| Rigid Stem + Flex | 1 |
| With Thermocouple | 2 |

| CONNECTOR |   |
|-----------|---|
| None      | 0 |

| ACCURACY CLASS |   |
|----------------|---|
| 1.00% FSO      | L |

| RANGE |      |       |      |
|-------|------|-------|------|
| bar   |      | psi   |      |
| 350   | B35D | 5000  | P05M |
| 700   | B07C | 10000 | P10M |

000 = standard version  
Special or customized versions available on request

| FLEXIBLE LENGTH (mm, inches) |              |
|------------------------------|--------------|
| <b>Standard (M50)</b>        |              |
| 0                            | none         |
| <b>Standard (M51, M52)</b>   |              |
| D                            | 457 mm, 18"  |
| E                            | 610 mm, 24"  |
| F                            | 760 mm, 30"  |
| <b>Available on request</b>  |              |
| A                            | 76 mm, 3"    |
| B                            | 152 mm, 6"   |
| C                            | 300 mm, 12"  |
| G                            | 914 mm, 36"  |
| H                            | 1067 mm, 42" |
| I                            | 1220 mm, 48" |
| J                            | 1372 mm, 54" |
| K                            | 1520 mm, 60" |

| RIGID STEM LENGTH (mm, inches)  |               |
|---------------------------------|---------------|
| <b>Standard (M50, M51, M52)</b> |               |
| 4                               | 153 mm, 6"    |
| 5                               | 318 mm, 12.5" |
| <b>Available on request</b>     |               |
| 1                               | 38 mm, 1.5"   |
| 2                               | 50 mm, 2"     |
| 3                               | 76 mm, 3"     |
| 6                               | 350 mm, 14"   |
| 7                               | 400 mm, 16"   |
| 8                               | 456 mm, 18"   |

| THREAD          |            |
|-----------------|------------|
| <b>Standard</b> |            |
| 1               | 1/2-20 UNF |
| 4               | M18x1.5    |



### Examples

#### **M52-0-L-B07C-1-4-F-000**

Mechanical melt pressure gauge with type "J" thermocouple, 1/2-20 UNF thread, 700 bar full scale output, 1.0% accuracy class, 153 mm (6") rigid stem, 760 mm (30") flexible armor

#### **M50-0-L-P05M-1-4-0-000**

Mechanical melt pressure gauge, rigid stem, 1/2-20 thread, 5000 psi full scale output, 1.0% accuracy class, 153 mm (6") rigid stem

GEFRAN reserves the right to make any kind of design or functional modification at any moment without prior notice.

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