



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 <math>\pm 1.0\%</math> FSO	
Measurement Range	0–350 or 0–700 bar 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 (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 .....	<b>.SF18</b>
Dummy plug for 1/2-20UNF .....	<b>.SC12</b>
Dummy plug for M18x1.5 .....	<b>.SC18</b>
Drill kit for 1/2-20UNF .....	<b>.KF12</b>
Drill kit for M18x1.5 .....	<b>.KF18</b>
Cleaning kit for 1/2-20UNF .....	<b>.CT12</b>
Cleaning kit for M18x1.5 .....	<b>.CT18</b>

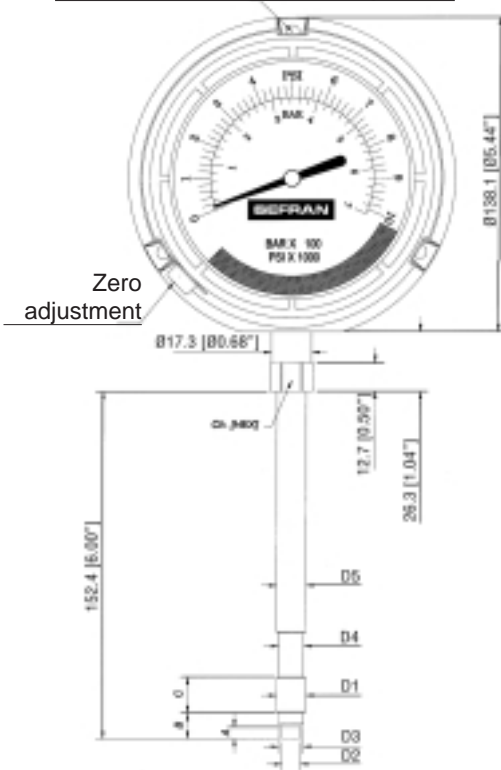
#### Thermocouple for M52 model

Type "J" (153mm – 6" stem) .....	<b>.TTER718</b>
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# MECHANICAL DIMENSIONS

**M50**

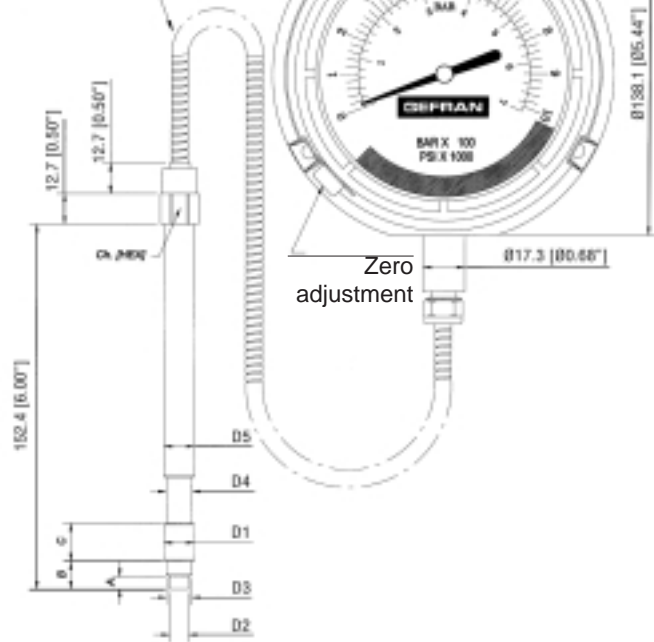
ø 4.7 [ø0.018] Panel mounting



**M51**

ø 4.7 [ø0.018] Panel mounting

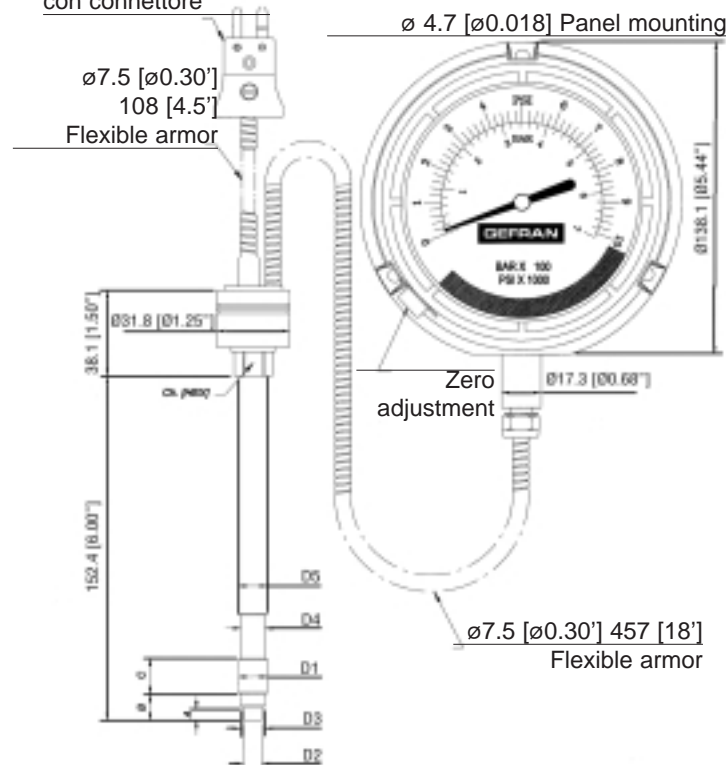
ø7.5 [ø0.30"] 457 [18"]  
Flexible armor



**M52**

Termocoppia tipo J  
con connettore

ø 4.7 [ø0.018] Panel mounting



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

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

	<b>M</b>	<b>5</b>	-	<b>0</b>	-	<b>L</b>	-	-	-	-	-	-	<b>000</b>
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OUTPUT SIGNAL	
Mechanical Gauge	<b>5</b>

VERSION	
Rigid Stem	<b>0</b>
Rigid Stem + Flex	<b>1</b>
With Thermocouple	<b>2</b>

CONNECTOR	
None	<b>0</b>

ACCURACY CLASS	
1.00% FSO	<b>L</b>

RANGE			
bar		psi	
<b>350</b>	<b>B35D</b>	<b>5000</b>	<b>P05M</b>
<b>700</b>	<b>B07C</b>	<b>10000</b>	<b>P10M</b>

000 = standard version  
Special or customized versions available on request

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

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

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