



The M6 Series has an improved digital readout utilizing an extra-large five-digit display. The M6 Series 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

- Better than  $\pm 0.50\%$  accuracy
- Economically priced
- 2 times overload capacity
- 1/2-20 UNF thread standard, M18x1.5 also available
- One alarm standard
- 4-20 mA retransmission standard
- 15-5 stainless steel diaphragm with GTP+ coating standard (others available upon request)
- 17-7 PH corrugated diaphragm with TiN (Titanium Nitride) coating for ranges below 100 bar (1500 psi)

**M60** The rigid stem configuration makes installation fast and easy.

**M61** The flexible configuration is designed for applications requiring further thermal isolation or where installation would be otherwise difficult or impractical.

**M62** The pressure/temperature configuration requires only one mounting hole for the measurement of both process values.

### TECHNICAL SPECIFICATIONS

Nominal accuracy including Linearity, Repeatability, Hysteresis	<b>M</b> < $\pm 0.50\%$ FSO
Measurement Range	0–35 to 0–1000 bar 0–500 to 0–15000 psi
Maximum Overpressure	2 x FSO
Measurement Principle	Strain gage Wheatstone bridge
Supply Voltage	115 VAC or 230 VAC (factory set)
Retransmission of Pressure Value	4–20 mA (650 $\Omega$ max. load)
Maximum Housing Temperature	55°C (130°F)
Thermal Drift in Compensated Range	Zero Shift: 4.0%/100°C (2.0%/100°F) Sensitivity Shift: 2.0%/100°C (1.0%/100°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: 15-5 PH SS (GTP+ coated) 70 bar (1000 psi) and below: Corrugated 17-7PH SS (Titanium Nitride coated)
Thermocouple (model M62)	Type "J" (isolated junction)
Alarm	High Only For C Relay 5A @ 115-230 VDC

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

### ACCESSORIES

#### Accessories

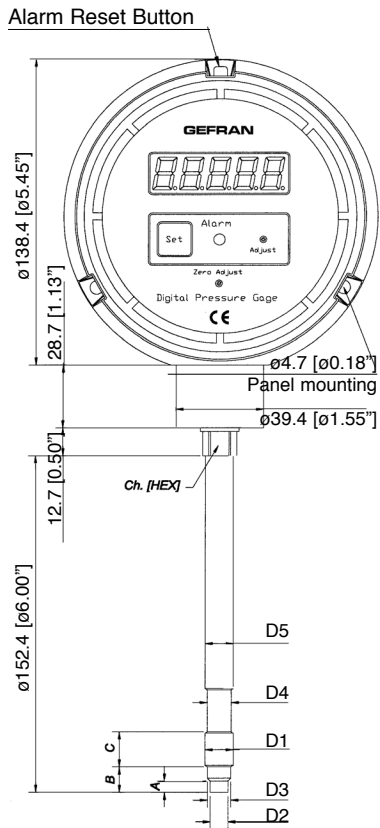
Mounting bracket.....	<b>SF18-659</b>
Dummy plug for 1/2-20UNF .....	<b>SC12</b>
Dummy plug for M18x1.5 .....	<b>SC18</b>
Drill kit for 1/2-20UNF.....	<b>KF12</b>
Drill kit for M18x1.5 .....	<b>KF18</b>
Cleaning kit for 1/2-20UNF.....	<b>CT12</b>
Cleaning kit for M18x1.5 .....	<b>CT18</b>

#### Thermocouple for M62 model

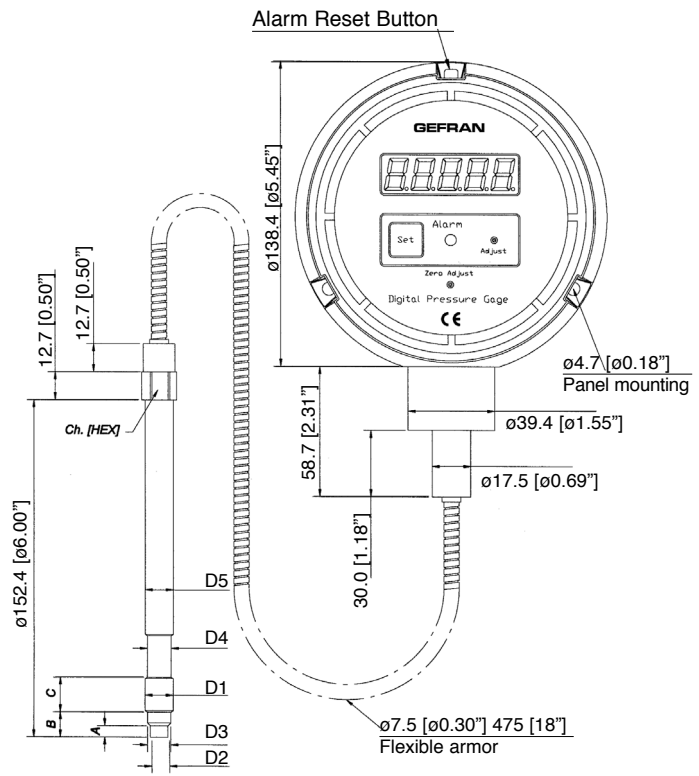
Type "J" (153 mm [6"] stem) .....	<b>TTER718</b>
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# MECHANICAL DIMENSIONS

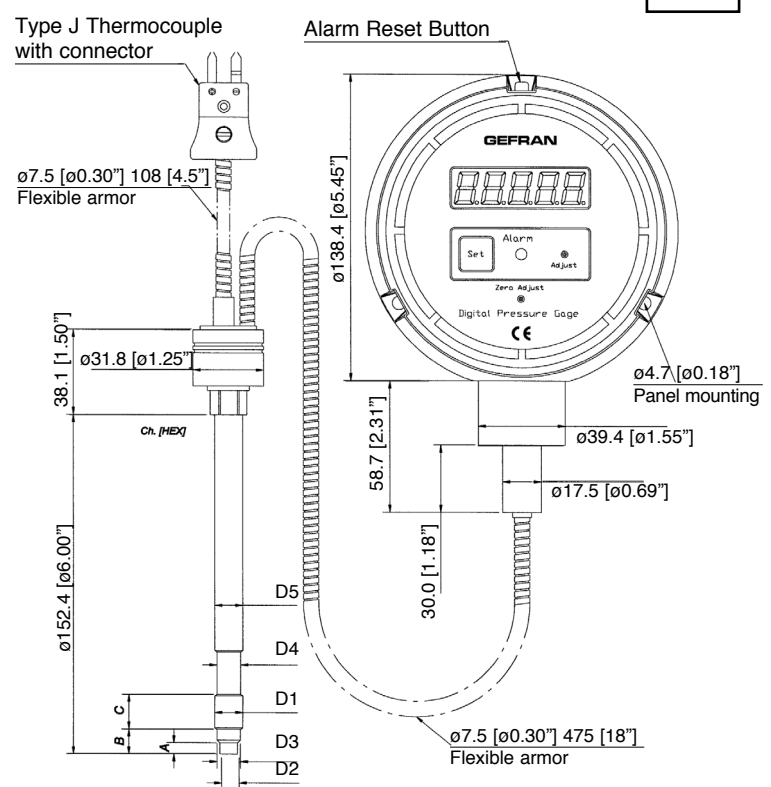
**M60**



**M61**



**M62**



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"]

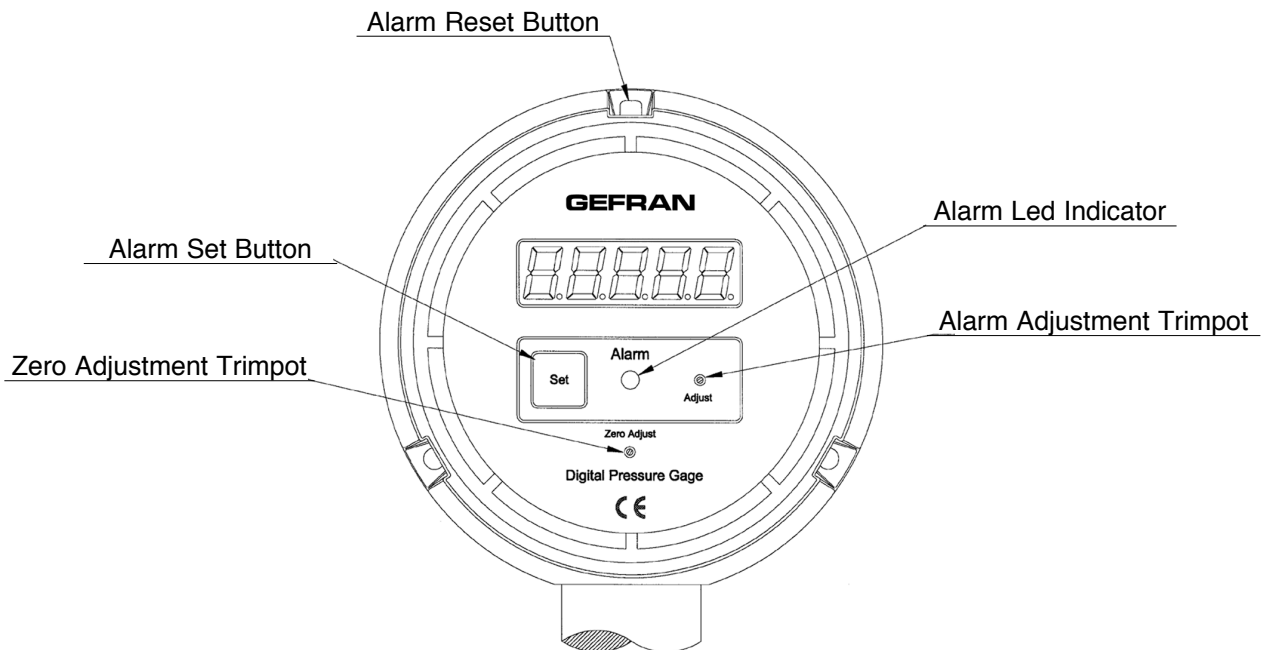
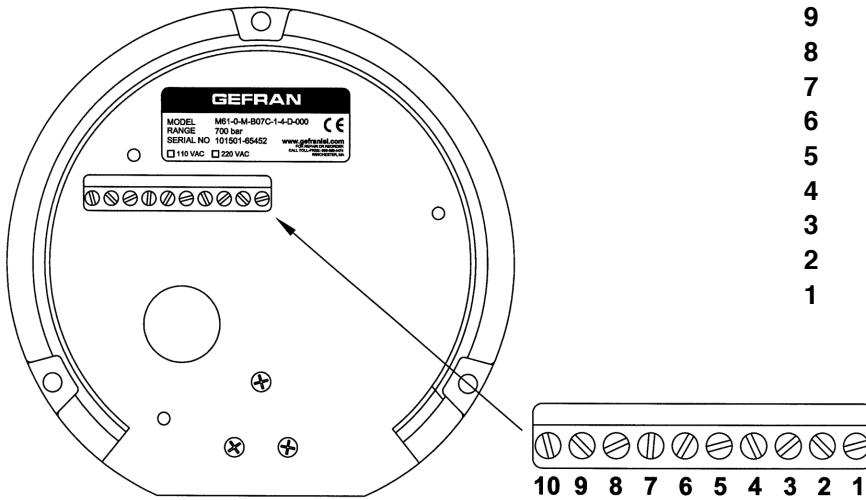
**NOTE :** dimensions refer to rigid stem length option "4" (153 mm – 6") and flex length option "D" (457mm – 18")

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

# ELECTRICAL CONNECTIONS

## Wiring key:

- 10 4-20mA Auxiliary output (-)
- 9 4-20mA Auxiliary output (+)
- 8 Not used
- 7 Alarm common
- 6 Alarm normally Open
- 5 Alarm normally Closed
- 4 Not used
- 3 Earth Ground (G)
- 2 AC Low (N)
- 1 AC High (L)



# ORDER CODE

M 6 - - M - - - - - - - - 000

OUTPUT SIGNAL	
Digital Gauge	6

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

CONNECTOR	
None	0 *

ACCURACY CLASS	
0.50% FSO	M

RANGE			
bar		psi	
35	B35U	500	P05C
50	B05D	750	P75D
70	B07D	1000	P01M
100	B01C	1500	P15C
200	B02C	3000	P03M
350	B35D	5000	P05M
500	B05C	7500	P75C
700	B07C	10000	P10M
1000	B01M	15000	P15M

000 = standard version  
Special or customized versions available on request

FLEXIBLE LENGTH (mm, inches)	
<b>Standard (M60)</b>	
0	none
<b>Standard (M61, M62)</b>	
D	457 mm, 18"
F	760 mm, 30"
<b>Available on request</b>	
A	76 mm, 3"
B	152 mm, 6"
C	300 mm, 12"
E	610 mm, 24"
G	914 mm, 36"

RIGID STEM LENGTH (mm, inches)	
<b>Standard (M60, M61, M62)</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
<b>Available on request</b>	
2	M10x1.0
3	M14x1.5

\* The M6 comes standard with a 10-pin connector for power supply, alarm and retransmission signal.

## Examples

### M60-0-M-B07C-1-4-0-000

Digital melt pressure gauge, rigid stem, 1/2-20 UNF thread, 700 bar full scale output, 0.50% accuracy class, 153 mm (6") rigid stem

### M62-0-M-P03M-1-4-D-000

Digital melt pressure gauge with type "J" thermocouple, 1/2-20 UNF thread, 1/2-20 UNF thread, 3000 psi full scale output, 0.50% accuracy class, 153 mm (6") rigid stem, 457 mm (18") flex

Product designed and available in compliance with Directive 2011/65/EU (RoHS II) only for large-scale stationary installation or industrial tools, or for B-to-B laboratory equipments for R&D purposes.

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

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