# **MELT PRESSURE TRANSMITTERS**



# **ME SERIES**

Output 4...20mA



#### MAIN FEATURES

- Pressure ranges from:
  0-35 to 0-2000 bar / 0-500 to 0-30000 psi
- Accuracy: < ±0.25% FSO (H); < ±0.5% FSO (M)
- Fluid-filled system for temperature stability
- Mercury filling volume: ME0 (30mm<sup>3</sup>); ME1, ME2, ME3 (40mm<sup>3</sup>)
- 1/2-20UNF, M18x1.5 standard threads; other types available on request
- · Autozero function on board / external option
- Drift Autocompensation function (SP version)
- Standard diaphragm is 15-5 PH stainless steel with GTP+ coating
- 17-7 PH corrugated diaphragm with GTP+ coating for ranges below 100 bar-1500 psi

#### GTP+ (advanced protection)

Coating with high resistance against corrosion, abrasion and high temperature

#### **AUTOZERO FUNCTION**

All signal variations in the absence of pressure can be eliminated by using the Autozero function.

This function is activated by closing a magnetic contact located on the transmitter housing.

The procedure is permitted only with pressure at zero.

#### AUTOCOMPENSATES INFLUENCE OF MELT TEMPERATURE

Thanks to internal self-compensation, the MSP series transmitter cancels the effect of pressure signal variation caused by variation of Melt temperature.

This reduces at the minimum the read error caused by heating of the filling fluid (typical of all sensors built with "filled" technology).

The ME series of Gefran, are pressure transmitters for using in High temperature environment.

The main characteristic of this series is the capability to read temperature of the media up to 400°C.

The constructive principle is based on the hydraulic trasmission of the pressure.

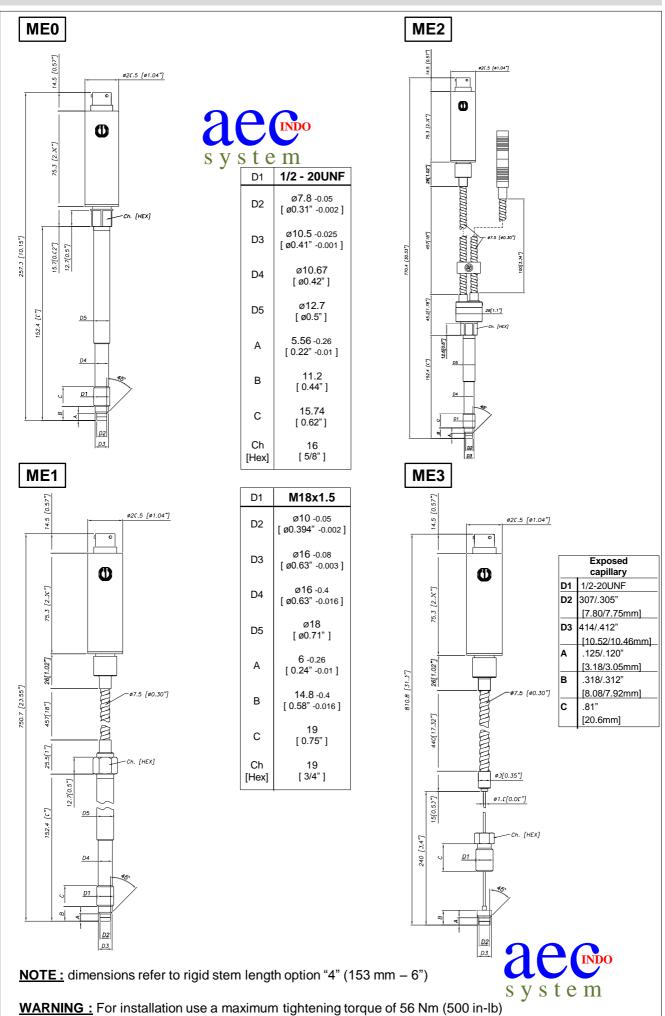
The fluid-filled system assures the temperature stability. The phisical measure is transformed in a electrical measure by means the strain-gauge technology.

### **TECHNICAL SPECIFICATIONS**

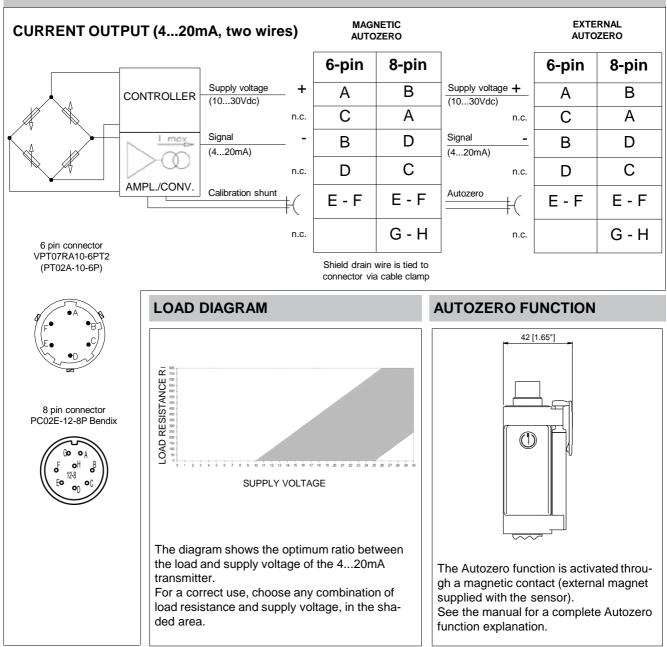
H <±0.25%FSO (1002000bar) M <±0.5%FSO (352000 bar) Infinite 035 to 02000bar		
035 to 02000bar		
035 to 02000bar 0500 to 030000psi		
2 x FS 1.5 x FS above 1000bar/15000psi		
Extensimetric		
1030Vdc		
32mA		
>1000 MOhm		
20mA		
4mA		
"Autozero" function		
See Manual		
See diagram		
~ 1ms		
< 0.025% FSO		
80% FSO		
YES		
0+85°C		
-30+105°C		
-40+125°C		
< 0.02% FSO/°C		
400°C / 750°F		
< 0.02 bar/°C		
$< 0.003 \text{ bar}/^{\circ}\text{C} \ 100 \le p < 500 \text{ bar}$ $0.0014 \ \%\text{FS}/^{\circ}\text{C} \ p \ge 500 \text{ bar}$		
Diaphragm: • 15-5 PH with GTP+ coating • 17-7 PH corrugated diaphragm with GTP+ coating for ranges <100 bar (1500psi) Stem: • 17-4 PH		
STD: type "J" (isolated junction)		
IP65		

FSO = Full scale output : (1) BFSL method (Best Fit Straight Line): includes combined effects of Non-Linearity, Hysteresis and Repeatability.

### **MECHANICAL DIMENSIONS**



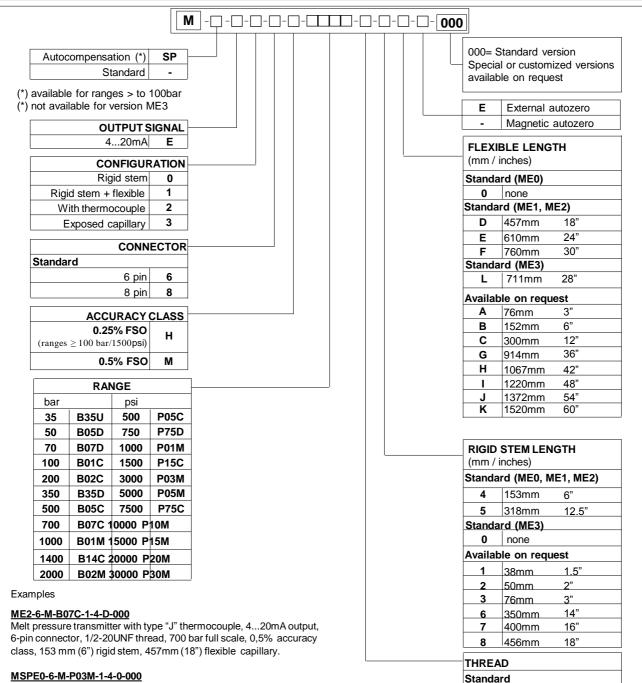
#### **ELECTRICAL CONNECTIONS**



## ACCESSORIES

Connectors					
6-pin mating connector (IP65 protection degree) 8-pin mating connector	CON300 CON307	Cable color code 6 wires			olor code vires
Extension cables		Conn.	Wire	Conn.	Wire
6-pin connector with 8m (25ft) cable	C08WLS				
6-pin connector with 15m (50ft) cable	C15WLS	Α	Red	Α	White
6-pin connector with 25m (75ft) cable	C25WLS	В	Black	в	Ded
6-pin connector with 30m (100ft) cable	C30WLS	D	DIACK	В	Red
8-pin connector with 8m (25ft) cable	E08WLS	С	White	с	Green
8-pin connector with 15m (50ft) cable	E15WLS				Giccii
8-pin connector with 25m (75ft) cable	E25WLS	D	Green	D	Black
8-pin connector with 30m (100ft) cable	E30WLS	Е	Blue	-	Dive
Other lengths	consult factory	E	Diue	E	Blue
Accessories		F	Orange	F	Orange
Mounting bracket	SF18	-	erange	•	Orange
Dummy plug for 1/2-20UNF	SC12			G	n.c.
Dummy plug for M18x1.5	SC18				
Drill kit for 1/2-20UNF	KF12			н	n.c.
Drill kit for M18x1.5	KF18				
Cleaning kit for 1/2-20UNF	CT12		le		
Cleaning kit for M18x1.5	CT18			INDO	
Fixing pen clip	PKIT309				
Autozero pen	PKIT312	S '	y s t e	m	
Thermocouple for ME2 model		~ •		-	
Type "J" (153mm - 6" stem)	<b>TTER 601</b>				

### **ORDER CODE**



Melt pressure transmitter autocompensated version, rigid stem, 4...20mA output, 6-pin connector, 1/2-20UNF thread, 3000 psi full scale, 0,5% accuracy class, 153 mm (6") rigid stem.

Sensors are manufactured in compliance with:

- EMC compatibility directive
- Machinery directive

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.

Electrical installation requirements and Conformity certificate are available on our web site: www.gefran.com

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



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1/2 - 20 UNF

M18 x 1.5

1

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