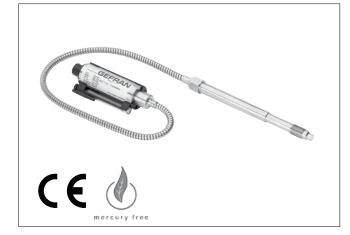
OIL FILLED MELT PRESSURE TRANSMITTERS



WE SERIES

Output 4...20mA



MAIN FEATURES

- Pressure ranges from: 0-35 to 0-1000 bar / 0-500 to 0-15000 psi
- Accuracy: < ±0.25% FSO (H); < ±0.5% FSO (M)
- Fluid-filled system for temperature stability
- Oil filling meets FDA requirements CFR 178.3620 and CFR 172.878
- Oil filling volume:
 - WE0 (30mm³); WE1, WE2, WE3 (40mm³)
- 1/2-20UNF, M18x1.5 standard threads; other types available on request
- · Other diaphragms available on request
- · Autozero function on board / external option
- · Drift Autocompensation function (SP version)
- 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 WSP 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 WE 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 315° 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.

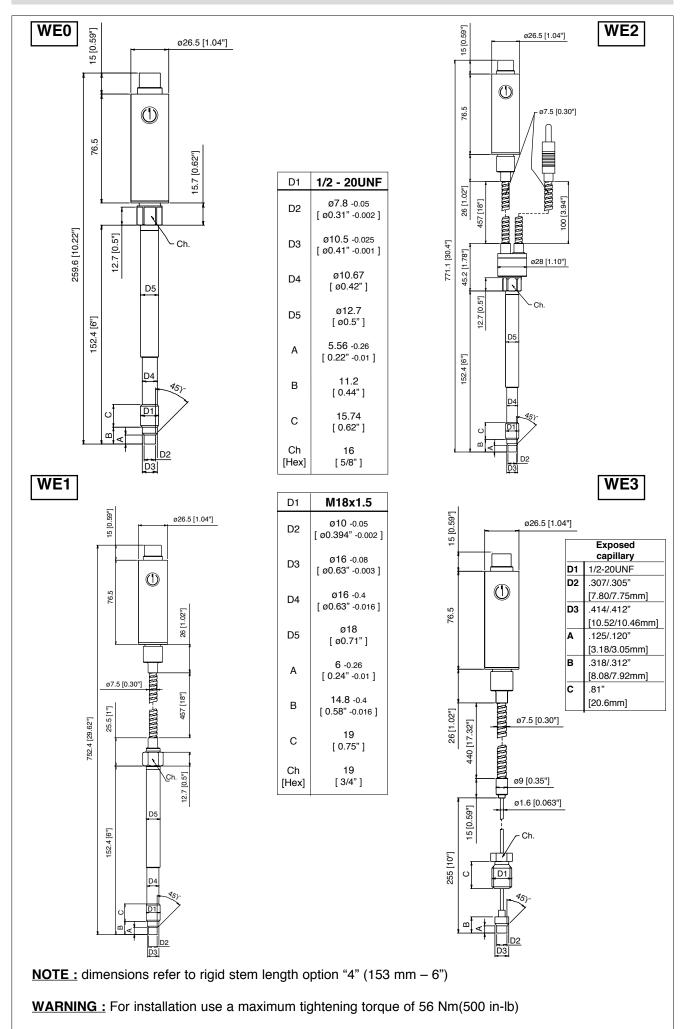
TECHNICAL SPECIFICATIONS

Accuracy (1)	H <±0.25%FSO (1001000 bar) M <±0.5%FSO (351000 bar)		
Resolution	Infinite		
Measurement range	035 to 01000bar 0500 to 015000psi		
Maximum overpressure (without degrading performances)	2 x FS 1.5 x FS above 500bar/7500psi		
Measurement principle	Extensimetric		
Power supply	1030Vdc		
Maximum current absorption	32mA		
Insulation resistance (at 50Vdc)	>1000 MOhm		
Output signal Full Scale (FSO)	20mA		
Zero balance (tollerance ± 0.25% FSO)	4mA		
Zero signals adjustment (tollerance ± 0.25% FSO)	"Autozero" function		
Span adjustment within ± 5% FSO	See Manual		
Maximum allowed load	See diagram		
Response time (1090% FSO)	~ 1ms		
Output noise (RMS 10-400Hz)	< 0.025% FSO		
Calibration signal	80% FSO		
Output short circuit ingress and reverse polarity protection	YES		
Compensed temperature range	0+85°C		
Operating temperature range	-30+105°C		
Storage temperature range	-40+125°C		
Thermal drift in compesated range: Zero / Calibration / Sensibility	< 0.02% FSO/°C		
Diaphragm maximum temperature	315°C / 600°F		
Zero drift due to change in process temperature (zero)	< 0.04 bar/°C		
Zero drift temperature for Autocompensated version (SP) within the temperature range 20°C-315°C inclusive the drift temperature of the housing	< 0.005 bar/°C 100 ≤ p < 500 bar 0.0022 %FS/°C p ≥ 500 bar		
Standard Material in contact with process medium	Diaphragm: • 17-7PH corrugated diaphragm with GTP Stem • 17-4 PH		
Thermocouple (model WE2)	STD: type "J" (isolated junction)		
Protection degree (with 6-pole female connector)	IP65		

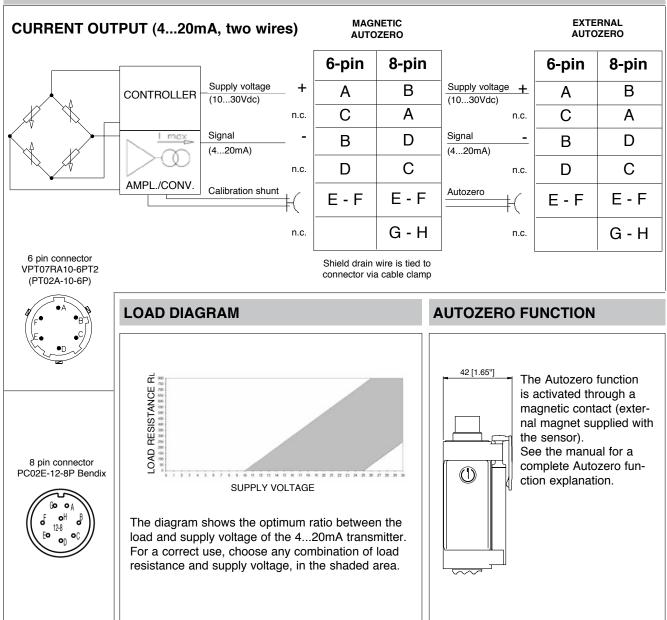
FSO = Full scale output

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

MECHANICAL DIMENSIONS



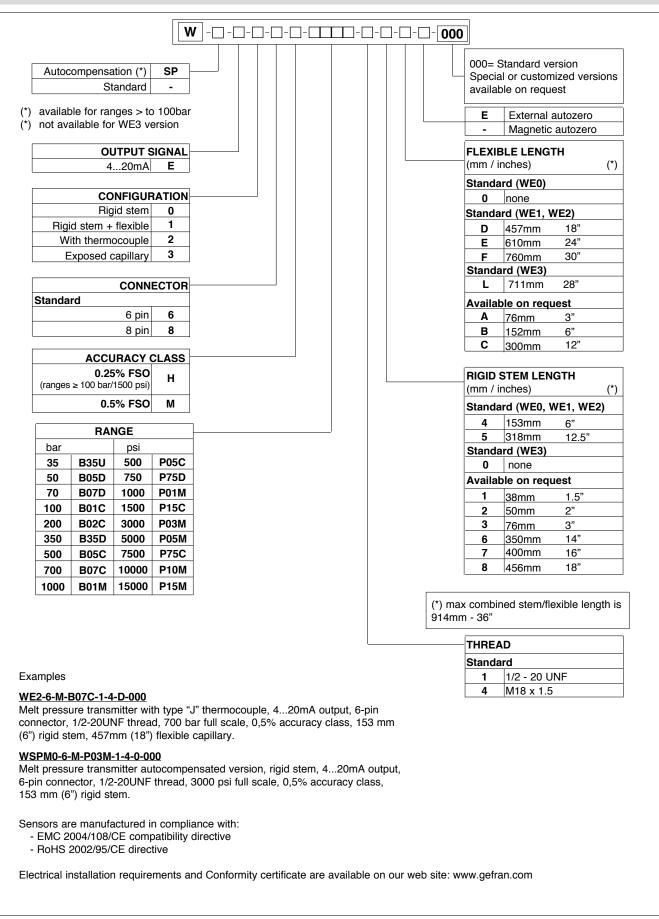
ELECTRICAL CONNECTIONS



ACCESSORIES

Connectors 6-pin mating connector (IP65 protection degree)	CON300	Cable color code	
8-pin mating connector	CON307	Conn.	Wire
		Α	Red
Extension cables	0001// 0	В	Black
6-pin connector with 8m (25ft) cable	C08WLS	С	White
6-pin connector with 15m (50ft) cable	C15WLS	D	Green
6-pin connector with 25m (75ft) cable	C25WLS	E	Blue
6-pin connector with 30m (100ft) cable	C30WLS	F	Orange
Other lengths	consult factory		
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		
-	CT18		
Cleaning kit for M18x1.5	-		
-	CT18		
Cleaning kit for M18x1.5 Fixing pen clip	CT18 PKIT309		

ORDER CODE



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



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