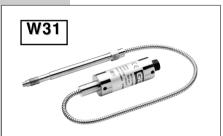


# OIL-FILLED MELT PRESSURE TRANSDUCERS

mV/V output



The rigid stem configuration makes installation fast and easy



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



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



The exposed capillary configuration is ideal to fit in space restricted locations

#### Main features

- Pressure ranges from:

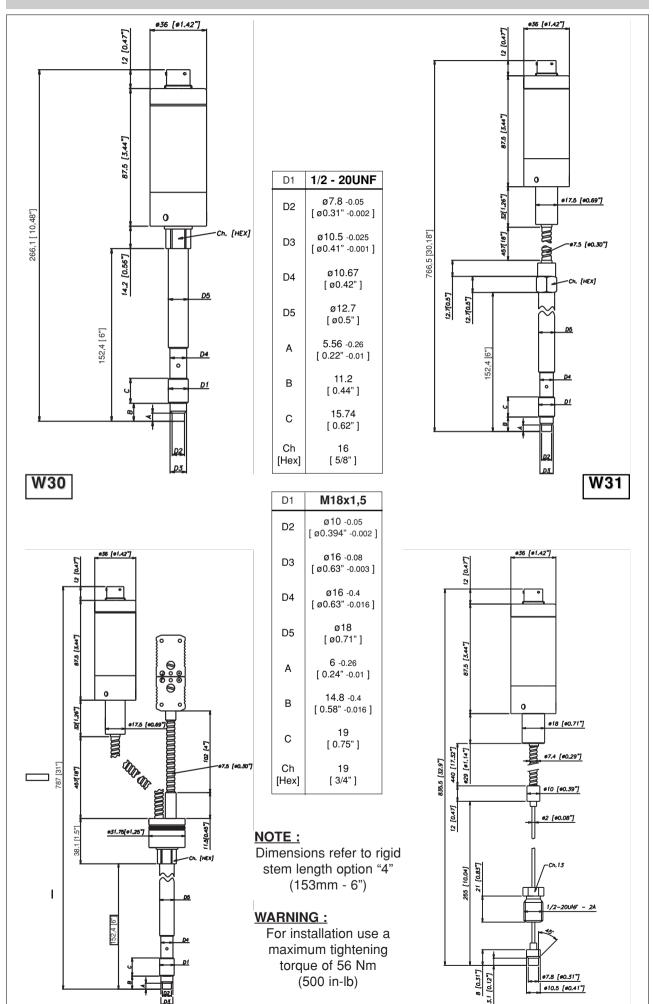
   0-35 to 0-1000 bar / 0-500 to 0-15000 psi
- Strain gage Wheatstone bridge
- Accuracy : <±0.25% FSO (H); <±0.5% FSO (M)
- Internally generated 80% calibration signal (R-Cal)
- · Fluid-filled system for temperature stability
- Oil filling meets FDA requirements CFR 178.3620 and CFR 172.878
- · Fully interchangeable with all existing brands
- Grade of protection: IP65 (6-pin connector version)
- 1/2-20UNF, M18x1.5 standard threads; other types available on request
- Standard diaphragm is a 17-7 PH stainless steel TiN (Titanium Nitride) coated corrugated diaphragm

## **TECHNICAL SPECIFICATIONS**

Nominal accuracy including Linearity, Repeatibility, Hysteresis	<b>H</b> <±0.25%FSO (3501000 bar) <b>M</b> <±0.5%FSO (351000 bar)		
Resolution	Infinite		
Measurement range	035 to 01000bar 0500 to 015000psi		
Maximum overpressure	2 x FS 1.5 x FS above 500bar/7500psi		
Measurement principle	Strain gage Wheatstone bridge		
Supply voltage	612Vdc (10Vdc typical)		
Strain gage bridge resistance	350 Ohm (550 Ohm below 100bar - 1500psi)		
Isolation resistance (at 50Vdc)	>1000 MOhm		
Full Scale Output (FSO)	2.5 mV/V (option 2) 3.33 mV/V (option 3)		
Zero balance	±5%		
Calibration signal	80% FSO		
Strain gauge housing compensated temperature range	0+100°C 32212°F		
Maximum housing temperature range	-30+120°C -22250°F		
Thermal drift in compensated range Zero/Calibr./Sens.	< 0.02% FSO/°C < 0.01% FSO/°F		
Diaphragm maximum temperature	315°C 600°F		
Zero drift due to change in process temperature	0.04 bar/°C 30 psi/100°F		
Material in contact - Standard with process medium	17-7PH corrugated diaphragm with Titanium Nitride coating		
- Optional	17-7PH corrugated diaphragm with Chromium Nitride coating		
Thermocouple (model W32)	STD : type "J" (isolated junction)		
Protection degree (with 6-pin mating connector)	IP65		
Electrical connections	6-pin Conn. VPT07RA10-6PT (PT02A-10-6P)		
	8-pin Conn. PC02E-12-8P		

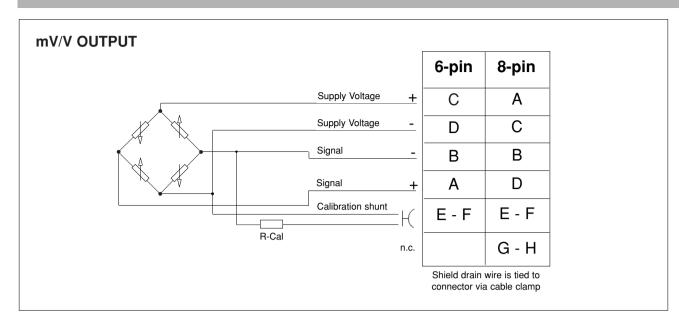
## **MECHANICAL DIMENSIONS**

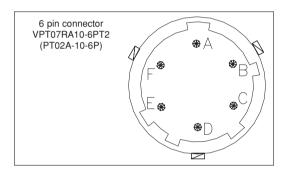
W32

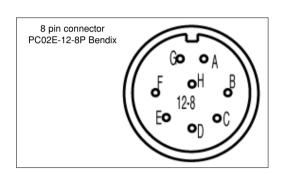


**W33** 

# **ELECTRICAL CONNECTIONS**



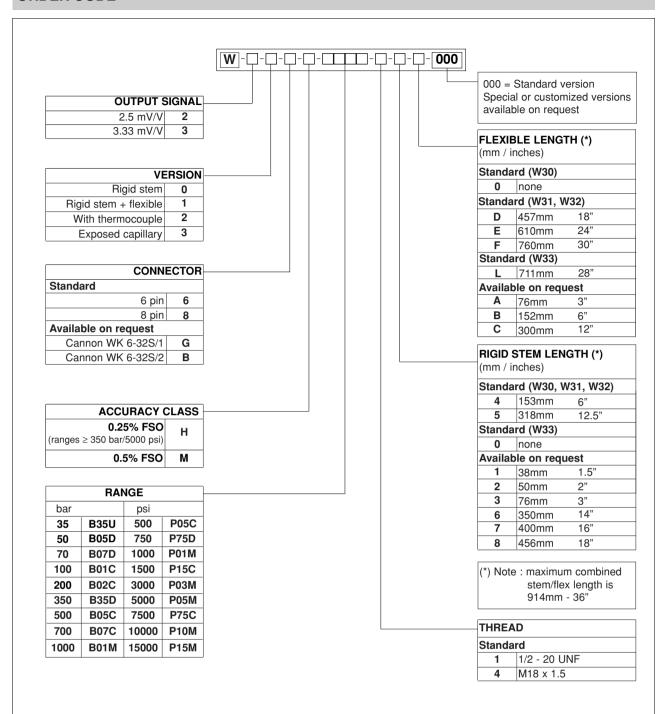




# **ACCESSORIES**

6-pin mating connector (IP65 protection degree)	CON300		
8-pin mating connector	CON307		
Extension cables		Cable color code	
6-pin connector with 8m (25ft) cable	C08WLS	Conn.	Wire
6-pin connector with 15m (50ft) cable	C15WLS	Α	Red
6-pin connector with 25m (75ft) cable	C25WLS	В	Black
6-pin connector with 30m (100ft) cable	C30WLS	С	White
8-pin connector with 8m (25ft) cable	E08WLS	D	Green
8-pin connector with 15m (50ft) cable	E15WLS	E F	Blue
8-pin connector with 25m (75ft) cable	E25WLS	F	Orange
8-pin connector with 30m (100ft) cable	E30WLS	G	n.c.
Other lengths	consult factory	Н	n.c.
Accessories Mounting bracket Dummy plug for 1/2-20UNF Dummy plug for M18x1.5 Drill kit for 1/2-20UNF Drill kit for M18x1.5 Cleaning kit for 1/2-20UNF Cleaning kit for M18x1.5	SF18 SC12 SC18 KF12 KF18 CT12 CT18		
Thermocouple for W32 model Type "J" (153mm - 6" stem)	TTER 718		

#### **ORDER CODE**



#### **Examples**

#### W32-6-M-B07C-1-4-D-000

Melt pressure transducer with type "J" thermocouple, 3.33 mV/V output, 6-pin connector, 1/2-20UNF thread, 700bar full scale, 0.5 % accuracy class, 153 mm (6") rigid stem, 457mm (18") flexible capillary.

#### W20-8-M-P03M-1-4-0-000

Melt pressure transducer, rigid stem, 2.5 mV/V output, 8-pin connector, 1/2-20UNF thread, 3000psi full scale, 0.5 % 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.



### **LEADER Electronic Co., Ltd**

116, Jianghuali, Jianghua Road, Jiangmen City, GD, PRC

Tel: + 86 750 3101711, 3379183

Fax: +86 750 3388669

Website: www.leadersensors.com E-mail: leader@leadersensors.com



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