OIL-FILLED MELT PRESSURE TRANSDUCERS W3 SERIES mV/V output



MAIN FEATURES

GEFRAN

- 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: W30 (30mm³); W31-W32-W33 (40mm³)
- 1/2-20UNF, M18x1.5, standard threads; other types available on request
- Standard diaphragm is a 17-7 PH stainless steel GTP coating corrugated diaphragm

GTP (advanced protection)

Coating with high resistance against corrosion, abrasion and high temperature

The W3 series of Gefran, are pressure transducers 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 (3501000 bar) M <±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) (toll. 0.5% FSO)	2.5 mV/V (option 2) 3.33 mV/V (option 3)
Zero balance	±0.5%
Calibration signal	80% FSO
Strain gauge housing compensated tem- perature 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
Standard Material in contact with process medium	Diaphragm: • 17-7PH corrugated diaphragm with GTP Stem • 17-4 PH
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

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

		Cable of	Cable color code	
6-pin mating connector (IP65 protection degree)	CON300	Conn.	Wire	
8-pin mating connector	CON307	A	Red	
		B C	Black White	
Extension cables		D	Green	
6-pin connector with 8m (25ft) cable	C08W	E	Blue	
6-pin connector with 15m (50ft) cable	C15W	E F	Orange	
6-pin connector with 25m (75ft) cable	C25W	G	n.c.	
6-pin connector with 30m (100ft) cable	C30W	Н	n.c.	
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			
Cleaning kit for M18x1.5	CT18			
Thermocouple for W32 model				

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.



GEFRAN spa via Sebina, 74 25050 PROVAGLIO D'ISEO (BS) - ITALIA tel. 0309888.1 - fax. 0309839063 Internet: http://www.gefran.com