PRESSURE TRANSDUCERS FOR HIGH TEMPERATURE.



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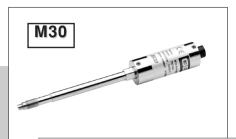
PRESSURE TRANSDUCERS FOR HIGH TEMPERATURE

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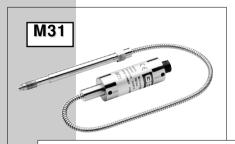


MELT PRESSURE TRANSDUCERS

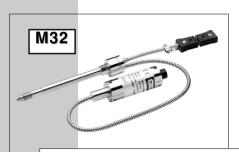
mV / V output



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



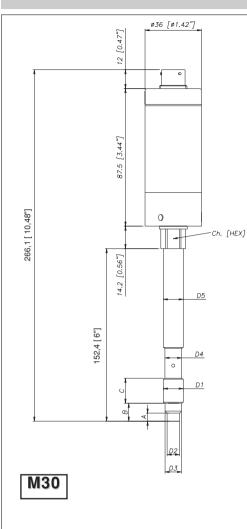
The exposed capillary configuration is ideal to fit in space-restricted locations

Main features

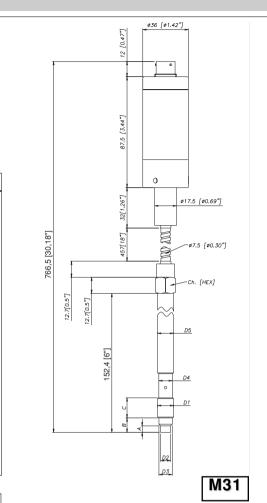
- Pressure ranges from: 0-35 to 0-2000 bar / 0-500 to 0-30000 psi
- Strain gage Wheatstone bridge
- Accuracy:
 <±0.25% FSO (H); <±0.5% FSO (M)
- Internally generated 80% calibration signal (R-Cal)
- · Fluid-filled system for temperature stability
- · Fully interchangeable with all existing brands
- Grade of protection: IP65 (6-pin connector version)
- 1/2-20UNF, M18x1.5 standard threads; other types available on request
- Standard diaphragm is 15-5 PH stainless steel with Armoloy coating
- 17-7 PH corrugated diaphragm with TiN coating (Titanium Nitride) for ranges below 100bar-1500psi
- · Other diaphragms available on request

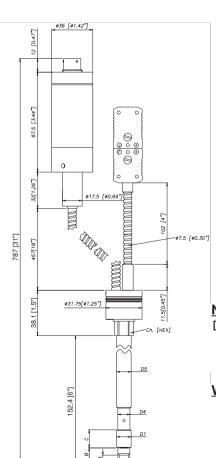
TECHNICAL SPECIFICATIONS

Nominal accuracy including Linearity, Repeatibility, Hysteresis	H <±0.25%FSO (1002000 bar) M <±0.5%FSO (352000 bar)
Resolution	Infinite
Measurement range	035 to 02000bar 0500 to 030000psi
Maximum overpressure	2 x FS 1.5 x FS above1000bar/15000psi
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% FSO
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	400°C 750°F
Zero drift due to change in process temperature	0.02 bar/°C 15 psi/100°F
Material in contact - Standard with process medium	15-5 PH with Armoloy coating 17-7 PH corrugated diaphragm with Titanium Nitride coating for ranges <100 bar (1500psi)
Thermocouple (model M32)	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



D1	1/2 - 20UNF
D2	ø7.8 -0.05 [ø0.31" -0.002]
D3	ø10.5 -0.025 [ø0.41" -0.001]
D4	ø10.67 [ø0.42"]
D5	ø12.7 [ø0.5"]
А	5.56 -0.26 [0.22" -0.01]
В	11.2 [0.44"]
С	15.74 [0.62"]
Ch [Hex]	16 [5/8"]



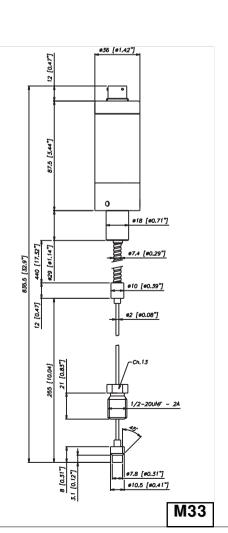


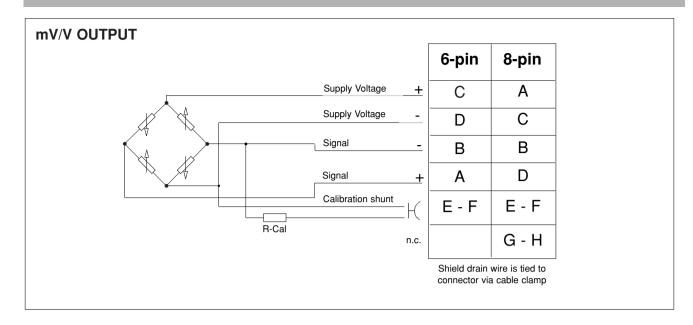
M32

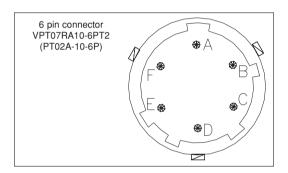
D1	M18x1.5
D2	ø10 -0.05 [ø0.394" -0.002]
D3	ø16 -0.08 [ø0.63" -0.003]
D4	Ø16 -0.4 [Ø0.63" -0.016]
D5	ø18 [ø0.71"]
A	6 -0.26 [0.24" -0.01]
В	14.8 -0.4 [0.58" -0.016]
С	19 [0.75"]
Ch [Hex]	19 [3/4"]

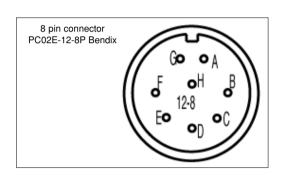
NOTE: Dimensions refer to rigid stem length option "4" (153mm - 6")

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



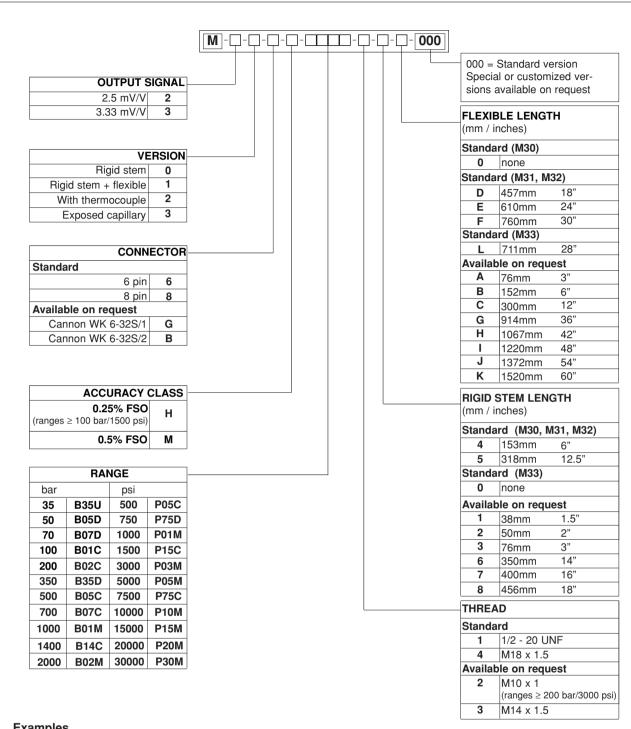






ACCESSORIES

6-pin mating connector (IP65 protection degree) 8-pin mating connector	CON300 CON307		
Extension cables		Cable o	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	Blue
8-pin connector with 25m (75ft) cable	E25WLS	F	Brown
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 M32 model Type "J" (153mm - 6" stem)	TTER 718		



Examples

M32-6-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.

M20-8-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



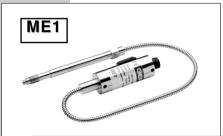


MELT PRESSURE TRANSMITTERS

4-20 mA 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

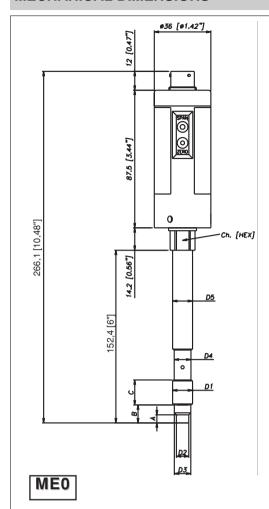
Main features

- Pressure ranges from: 0-35 to 0-2000 bar / 0-500 to 0-30000 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
- · 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 15-5 PH stainless steel with Armoloy coating
- 17-7 PH corrugated diaphragm with TiN coating (Titanium Nitride) for ranges below 100bar-1500psi
- · Other diaphragms available on request

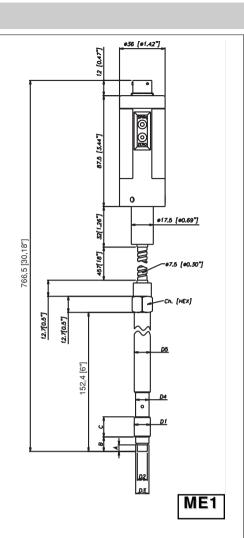
TECHNICAL SPECIFICATIONS

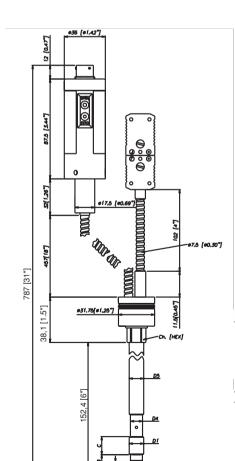
Nominal accuracy including Linearity, Repeatibility, Hysteresis	H <±0.25%FSO (1002000 bar) M <±0.5%FSO (352000 bar)
Resolution	Infinite
Measurement range	035 to 02000bar 0500 to 030000psi
Maximum overpressure	2 x FS 1.5 x FS above1000bar/15000psi
Measurement principle	Strain gage Wheatstone bridge
Supply voltage	12-30Vdc
Maximum current consumption	20mA
Isolation resistance (at 50Vdc)	>1000 MOhm
Full Scale Output (FSO)	20mA
Zero balance	4mA
Signals adjustment : Nominal pressure Ambient pressure	5% FSO min. 10 bar (150psi)
Maximum load	see diagram (page 3)
Response time (10 to 90% FSO)	~ 8ms
Output noise (RMS 10-400Hz)	< 0.05% FSO
Calibration signal	80% FSO
Protection against output shortcircuit and supply voltage inverted polarity	YES
Protection against output voltage spikes	YES according to 89/336/EEC
Strain gauge housing compensated temperature range	0+76°C 32170°F
Maximum housing temperature range	-30+85°C -22185°F
Thermal drift in compensated range Zero/Calibr./Sens.	< 0.02%FSO/°C < 0.01%FSO/°F
Diaphragm maximum temperature	400°C 750°F
Zero drift due to change in process temperature	0.02 bar/°C 15 psi/100°F
Material in contact - Standard with process medium	15-5 PH with Armoloy coating 17-7 PH corrugated diaphragm with Titanium Nitride coating for ranges <100 bar (1500psi)
Thermocouple (model ME2)	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 (output signal at nominal pressure)



D1	1/2 - 20UNF
D2	ø7.8 -0.05 [ø0.31" -0.002]
D3	ø10.5 -0.025 [ø0.41" -0.001]
D4	ø10.67 [ø0.42"]
D5	ø12.7 [ø0.5"]
A	5.56 -0.26 [0.22" -0.01]
В	11.2 [0.44"]
С	15.74 [0.62"]
Ch [Hex]	16 [5/8"]





ME2

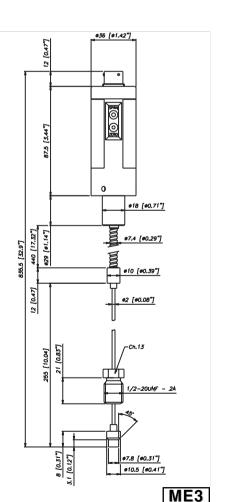
D1	M18x1,5
D2	ø10 -0.05 [ø0.394" -0.002]
D3	ø16 -0.08 [ø0.63" -0.003]
D4	Ø16 -0.4 [Ø0.63" -0.016]
D5	ø18 [ø0.71"]
Α	6 -0.26 [0.24" -0.01]
В	14.8 -0.4 [0.58" -0.016]
С	19 [0.75"]
Ch [Hex]	19 [3/4"]

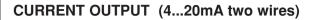
NOTE:

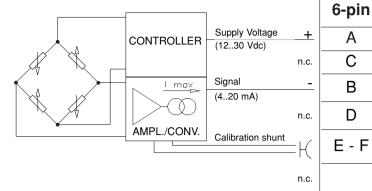
Dimensions refer to rigid stem length option "4" (153mm - 6")

WARNING:

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







Shield drain wire is tied to connector via cable clamp

8-pin

Α

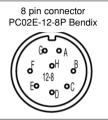
D

C

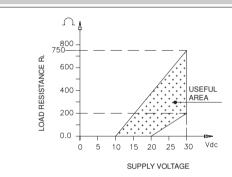
E-F

G-H

6 pin connector VPT07RA10-6PT2				
(PT02A-10-6P)				
F. B.				



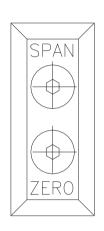
LOAD DIAGRAM FOR CURRENT OUTPUT



The diagram shows the optimum ratio between the load and supply voltage of the 4-20mA transmitter.

For a correct use, choose any combination of load resistance and supply voltage, in the shaded area.

ADJUSTMENTS



C08WLS
C15WLS
C25WLS
C30WLS
E08WLS
E15WLS
E25WLS
E30WLS
consult factory

ZERO and SPAN adjustment can be made by trimpots inside the transmitter body and accessible after removing the two protection screws.

Span is factory set and should not be adjusted.

ACCESSORIES

Connectors

6-pin mating connector (IP65 protection degree) CON300 8-pin mating connector CON307

Extension cables 6-pin connector with 8m (25ft) cable

1 ()	
6-pin connector with 15m (50ft) cable	
6-pin connector with 25m (75ft) cable	
6-pin connector with 30m (100ft) cable	
8-pin connector with 8m (25ft) cable	
8-pin connector with 15m (50ft) cable	
8-pin connector with 25m (75ft) cable	
8-pin connector with 30m (100ft) cable	
Other lengths	

Accessories

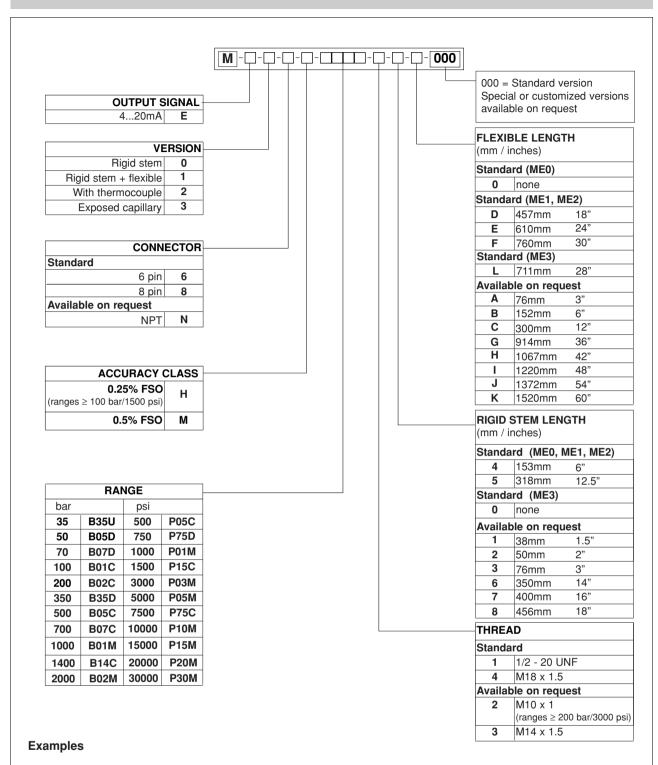
Mounting bracket	SF18
Dummy plug for 1/2-20UNF	SC12
Dummy plug for M18x1.5	SC18
Drill kit for 1/2-20UNF	KF12
Drill kit for M18x1.5	KF18
Cleaning kit for 1/2-20UNF	CT12
Cleaning kit for M18x1.5	CT18

Thermocouple for ME2 model

Type "J" (153mm - 6" stem) TTER 718

Cable c	olor code
Conn.	Wire

Conn.	Wire
Α	Red
В	Black
С	White
D	Green
E	Blue
F	Brown
G	n.c.
Н	n.c.



ME2-6-M-B07C-1-4-D-000

Melt pressure transmitter with type "J" thermocouple, 4..20 mA output, 6-pin connector, 1/2-20UNF thread, 700bar full scale, 0.5 % accuracy class, 153 mm (6") rigid stem, 457mm (18") flexible capillary.

ME0-8-M-P03M-1-4-0-000

Melt pressure transmitter, rigid stem, 4..20 mA output, 8-pin connector, 1/2-20UNF thread, 3000psi full scale, 0.5 % accuracy class. 153 mm (6") rigid stem

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GEFRAN spa



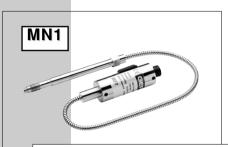


MELT PRESSURE TRANSMITTERS

Voltage output



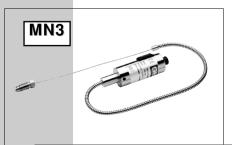
The rigid stem configuration makes installation fast and easy



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

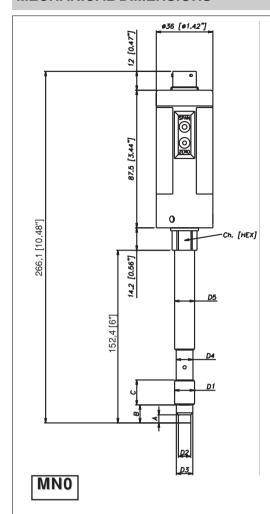
- Pressure ranges from:
 0-35 to 0-2000 bar / 0-500 to 0-30000 psi
- Strain gage Wheatstone bridge
- Accuracy :
- <±0.25% FSO (H); <±0.5% FSO (M)
- Internally generated 80% calibration signal (R-Cal)
- · Fluid-filled system for temperature stability
- · Fully interchangeable with all existing brands
- · Grade of protection: IP65
- 1/2-20UNF, M18x1.5 standard threads; other types available on request
- Standard diaphragm is 15-5 PH stainless steel with Armoloy coating
- 17-7 PH corrugated diaphragm with TiN coating (Titanium Nitride) for ranges below 100bar-1500psi
- · Other diaphragms available on request

TECHNICAL SPECIFICATIONS

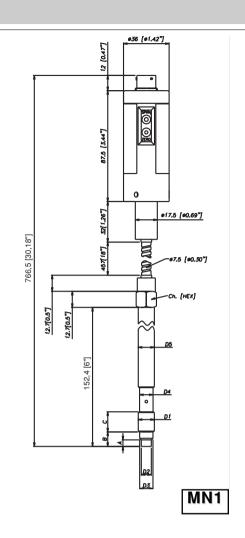
Nominal accuracy including Linearity, Repeatibility, Hysteresis	H <±0.25%FSO (1002000 bar) M <±0.5%FSO (352000 bar)	
Resolution	Infinite	
Measurement range	035 to 02000bar 0500 to 030000psi	
Maximum overpressure	2 x FS 1.5 x FS above1000bar/15000psi	
Measurement principle	Strain gage Wheatstone bridge	
Supply voltage	15-30Vdc	
Maximum current consumption	40mA (1)	
Isolation resistance (at 50Vdc)	>1000 MOhm	
Full Scale Output (FSO)	5Vdc (M, H) 5.1Vdc (B) 10Vdc (N, L) 10.1Vdc (C)	
Zero balance	0Vdc (M, N, H, L) 0.1Vdc (B, C)	
Signals adjustment : Nominal pressure Ambient pressure	5% FSO min. 10 bar (150psi)	
Maximum load	1mA	
Response time (10 to 90% FSO)	~ 4ms	
Output noise (RMS 10-400Hz)	< 0.05% FSO	
Calibration signal	80% FSO	
Protection against output shortcircuit and supply voltage inverted polarity	YES	
Protection against output voltage spikes	YES According to 89/336/EEC	
Strain gauge housing compensated temperature range	0+76°C 32170°F	
Maximum housing temperature range	-30+85°C -22185°F	
Thermal drift in compensated range Zero/Calibr./Sens.	< 0.02 %FSO/°C < 0.01 %FSO/°F	
Diaphragm maximum temperature	400°C 750°F	
Zero drift due to change in process temperature	0.02 bar/°C 15 psi/100°F	
Material in contact - Standard with process medium	15-5 PH with Armoloy coating 17-7 PH corrugated diaphragm with Titanium Nitride coating for ranges <100 bar (1500psi)	
Thermocouple (model MN2)	STD : type "J" (isolated junction)	
Protection degree	IP65	
Electrical connections	6-pin Conn. VPT07RA10-6PT (PT02A-10-6P)	
Protection degree	IP65 6-pin Conn. VPT07RA10-6PT (PT02A-10-6P)	

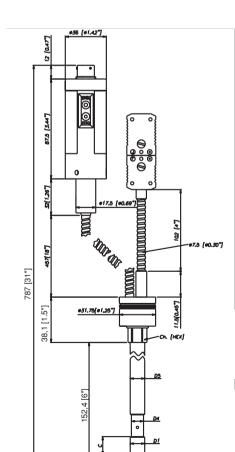
(1) Conditions: 30Vdc supply, maximum allowed load, calibration shunt inserted

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



D1	1/2 - 20UNF
D2	ø7.8 -0.05 [ø0.31" -0.002]
D3	ø10.5 -0.025 [ø0.41" -0.001]
D4	ø10.67 [ø0.42"]
D5	ø12.7 [ø0.5"]
А	5.56 -0.26 [0.22" -0.01]
В	11.2 [0.44"]
С	15.74 [0.62"]
Ch [Hex]	16 [5/8"]
	·





MN2

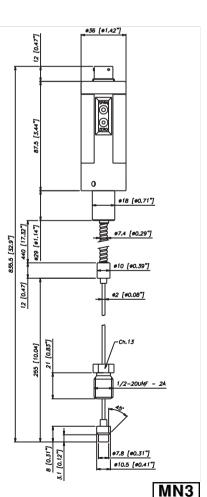
D1	M18x1,5
D2	ø10 -0.05 [ø0.394" -0.002]
D3	ø16 -0.08 [ø0.63" -0.003]
D4	Ø16 -0.4 [Ø0.63" -0.016]
D5	ø18 [ø0.71"]
А	6 -0.26 [0.24" -0.01]
В	14.8 -0.4 [0.58" -0.016]
С	19 [0.75"]
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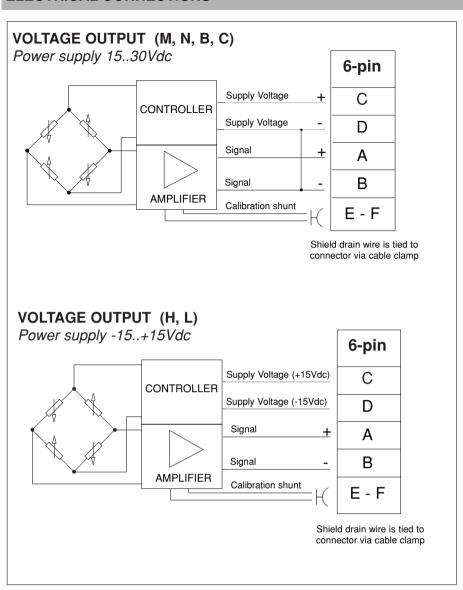
NOTE:

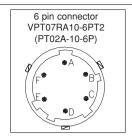
Dimensions refer to rigid stem length option "4" (153mm - 6")

WARNING:

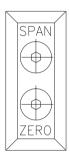
For installation use a maximum tightening torque of 56 Nm 500 in-lb







ADJUSTMENTS



ZERO and SPAN adjustment can be made by trimpots inside the transmitter body and accessible after removing the two protection screws.

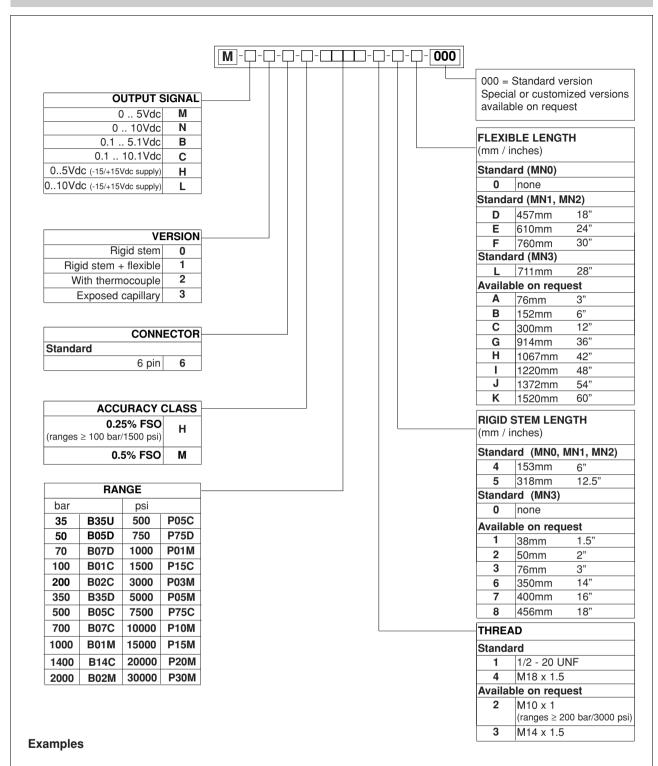
SPAN is factory set and should not be adjusted.

ACCESSORIES

Type "J" (153mm - 6" stem)

Connectors			
6-pin mating connector (IP65 protection degree)	CON300		
Extension cables		Cable o	color code
6-pin connector with 8m (25ft) cable	C08WLS	Conn.	Wire
6-pin connector with 15m (50ft) cable	C15WLS	A	Red
6-pin connector with 25m (75ft) cable	C25WLS	В	Black
6-pin connector with 30m (100ft) cable	C30WLS	С	White
		D	Green
Other lengths	consult factory	E	Blue
		F	Brown
Accessories	0540		
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		

TTER 718



MN2-6-M-B07C-1-4-D-000

Melt pressure transmitter with type "J" thermocouple, 0..10Vdc output, 6-pin connector, 1/2-20UNF thread, 700bar full scale, 0.5 % accuracy class, 153 mm (6") rigid stem, 457mm (18") flexible capillary.

MM0-6-M-P03M-1-4-0-000

Melt pressure transmitter, rigid stem, 0..5Vdc output, 6-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.



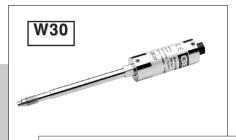
GEFRAN spa





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



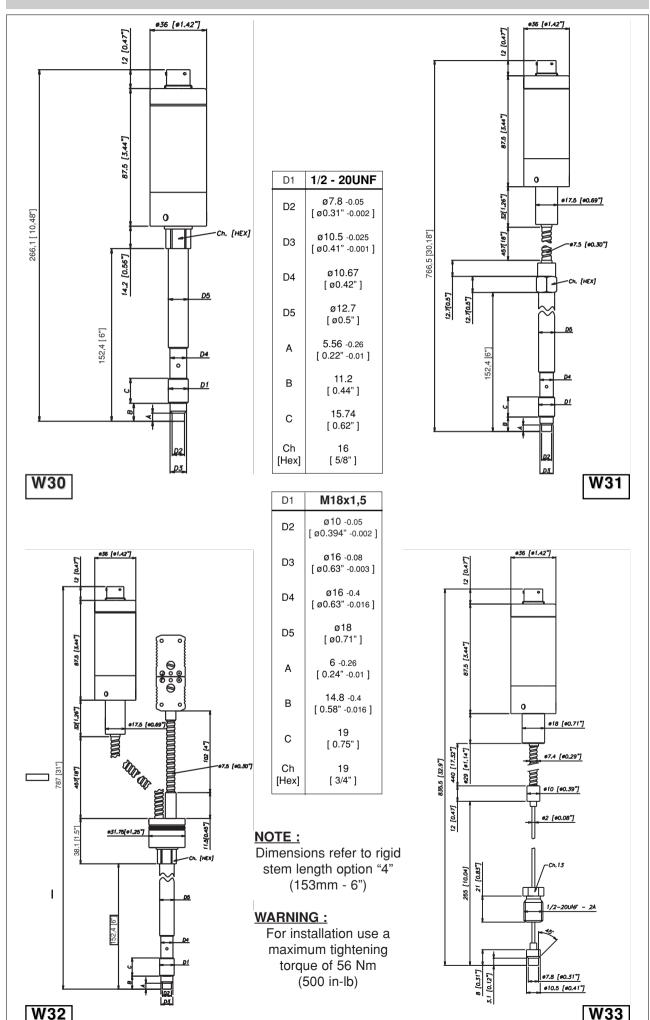
The exposed capillary configuration is ideal to fit in space restricted locations

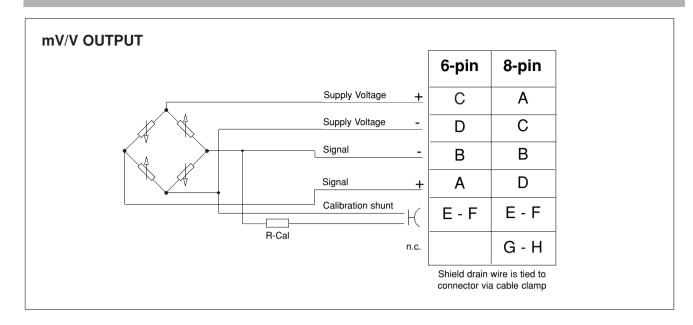
Main features

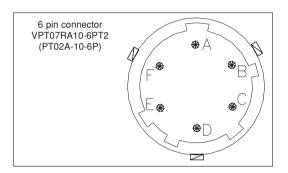
- Pressure ranges from: 0-35 to 0-1000 bar / 0-500 to 0-15000 psi
- · Strain gage Wheatstone bridge
- Accuracy :
- <±0.25% FSO (H); <±0.5% FSO (M) Internally generated 80% calibration signal (R-Cal)
- · Fluid-filled system for temperature stability
- Oil filling meets FDA requirements CFR 178.3620 and 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

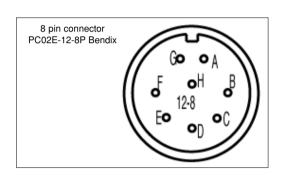
TECHNICAL SPECIFICATIONS

Nominal accuracy including Linearity, Repeatibility, Hysteresis	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)	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



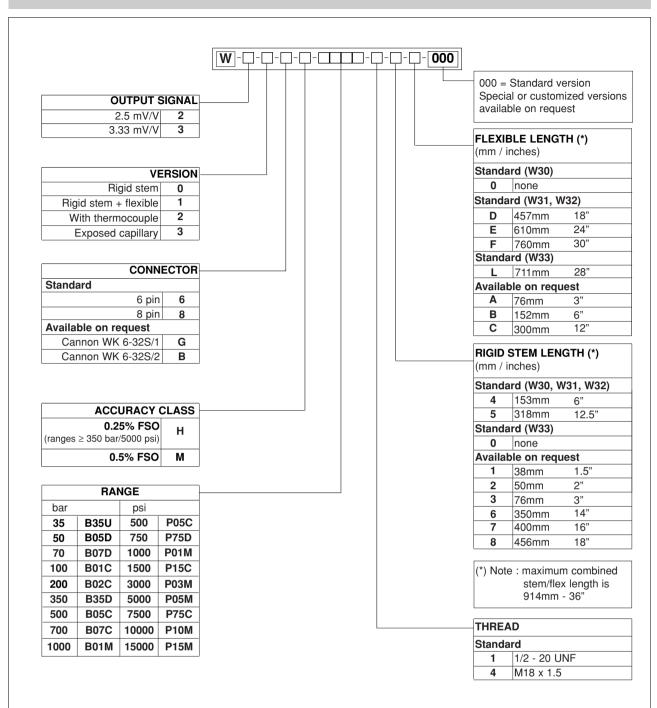






ACCESSORIES

6-pin mating connector (IP65 protection degree) 8-pin mating connector	CON300 CON307		
Extension cables		Cable o	olor code
6-pin connector with 8m (25ft) cable	C08WLS	Conn.	Wire
6-pin connector with 15m (50ft) cable	C15WLS	A	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	Brown
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		



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.



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OIL-FILLED MELT PRESSURE TRANSMITTERS

4-20 mA 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

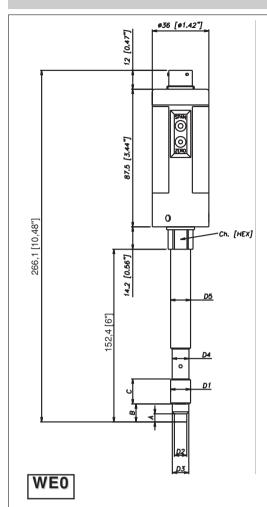
Main features

- 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

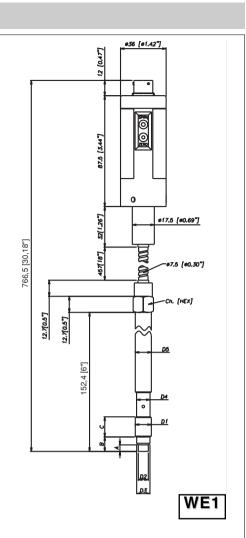
TECHNICAL SPECIFICATIONS

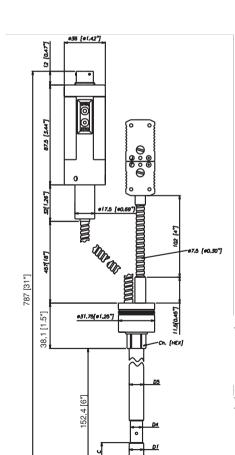
Nominal accuracy including Linearity, Repeatibility, Hysteresis	H <±0.25%FSO (3501000 bar) M <±0.5%FSO (351000 bar)
Resolution	Infinite
Measurement range	035 to 01000bar 0500 to 015000psi
Maximum overpressure	2 x FS 1.5 x FS above 500bar/7500psi
Measurement principle	Strain gage Wheatstone bridge
Supply voltage	12-30Vdc
Maximum current consumption	20mA
Isolation resistance (at 50Vdc)	>1000 MOhm
Full Scale Output (FSO)	20mA
Zero balance	4mA
Signals adjustment : Nominal pressure Ambient pressure	5% FSO min. 10 bar (150psi)
Maximum load	see diagram (page 3)
Response time (10 to 90% FSO)	~ 8ms
Output noise (RMS 10-400Hz)	< 0.05% FSO
Calibration signal	80% FSO
Protection against output shortcircuit and supply voltage inverted polarity	YES
Protection against output voltage spikes	YES according to 89/336/EEC
Strain gauge housing compensated temperature range	0+76°C 32170°F
Maximum housing temperature range	-30+85°C -22185°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 WE2)	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 (output signal at nominal pressure)



D1	1/2 - 20UNF
D2	ø7.8 -0.05 [ø0.31" -0.002]
D3	ø10.5 -0.025 [ø0.41" -0.001]
D4	ø10.67 [ø0.42"]
D5	ø12.7 [ø0.5"]
А	5.56 -0.26 [0.22" -0.01]
В	11.2 [0.44"]
С	15.74 [0.62"]
Ch [Hex]	16 [5/8"]
	1





WE2

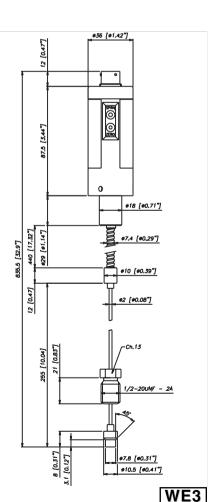
D1	M18x1,5
D2	ø10 -0.05 [ø0.394" -0.002]
D3	ø16 -0.08 [ø0.63" -0.003]
D4	Ø16 -0.4 [Ø0.63" -0.016]
D5	ø18 [ø0.71"]
A	6 -0.26 [0.24" -0.01]
В	14.8 -0.4 [0.58" -0.016]
С	19 [0.75"]
Ch [Hex]	19 [3/4"]

NOTE:

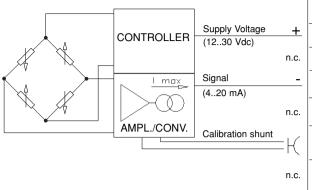
Dimensions refer to rigid stem length option "4" (153mm - 6")

WARNING:

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

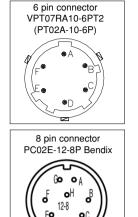


CURRENT OUTPUT (4...20mA two wires)

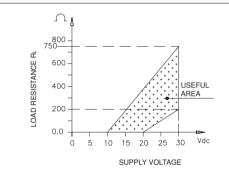


6-pin	8-pin
Α	В
С	Α
В	D
D	С
E-F	E-F
	G - H
Shield drain wire is tied to	

connector via cable clamp



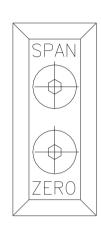
LOAD DIAGRAM FOR CURRENT OUTPUT



The diagram shows the optimum ratio between the load and supply voltage of the 4-20mA transmitter.

For a correct use, choose any combination of load resistance and supply voltage, in the shaded area.

ADJUSTMENTS



C08WLS

C15WLS

C25WLS

C30WLS

E08WLS

consult factory

ZERO and SPAN adjustment can be made by relative trimpots inside the transmitter body and accessible after removing the two protection screws.

Span is factory set and should not be adjusted.

Cable color code

Wire

Red

Black

White

Green

Brown

Blue

n.c.

n.c.

Conn.

В

С

D

Ε

F

G

Н

ACCESSORIES

Connectors

6-pin mating connector (IP65 protection degree) CON300 8-pin mating connector CON307

Extension cables 6-pin connector with 8m (25ft) cable

6-pin connector with 15m (50ft) cable 6-pin connector with 25m (75ft) cable 6-pin connector with 30m (100ft) cable 8-pin connector with 8m (25ft) cable 8-pin connector with 15m (50ft) cable 8-pin connector with 25m (75ft) cable 8-pin connector with 30m (100ft) cable Other lengths

15m (50ft) cable	E15WLS
25m (75ft) cable	E25WLS
30m (100ft) cable	E30WLS

Accessories

 Mounting bracket
 SF18

 Dummy plug for 1/2-20UNF
 SC12

 Dummy plug for M18x1.5
 SC18

 Drill kit for 1/2-20UNF
 KF12

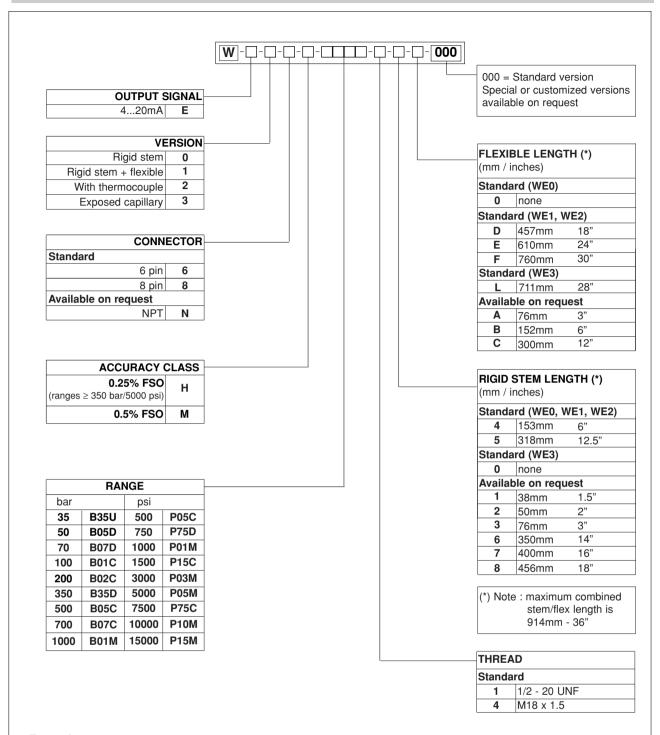
 Drill kit for M18x1.5
 KF18

 Cleaning kit for 1/2-20UNF
 CT12

 Cleaning kit for M18x1.5
 CT18

Thermocouple for WE2 model

Type "J" (153mm - 6" stem) TTER 718



Examples

WE2-6-M-B07C-1-4-D-000

Melt pressure transmitter with type "J" thermocouple, 4..20 mA output, 6-pin connector, 1/2-20UNF thread, 700bar full scale, 0.5 % accuracy class, 153 mm (6") rigid stem, 457mm (18") flexible capillary.

WE0-8-M-P03M-1-4-0-000

Melt pressure transmitter, rigid stem, 4..20 mA 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.



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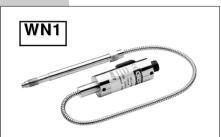




OIL-FILLED MELT PRESSURE TRANSMITTERS Voltage output



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

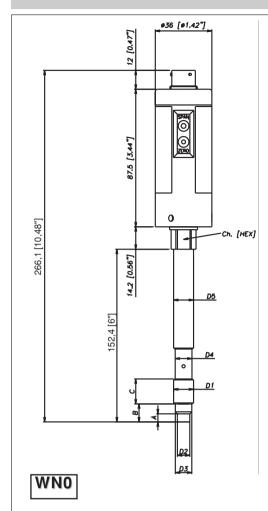
Main features

- 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

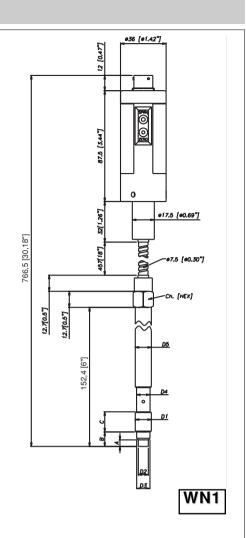
TECHNICAL SPECIFICATIONS

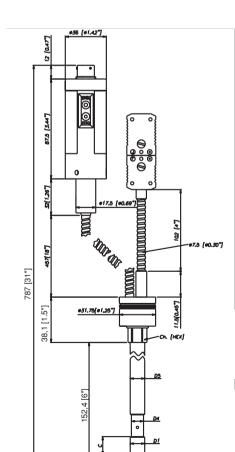
Nominal accuracy including Linearity, Repeatibility, Hysteresis	H <±0.25%FSO (3501000 bar) M <±0.5%FSO (351000 bar)
Resolution	Infinite
Measurement range	035 to 01000bar 0500 to 015000psi
Maximum overpressure	2 x FS 1.5 x FS above 500bar/7500psi
Measurement principle	Strain gage Wheatstone bridge
Supply voltage	15-30Vdc
Maximum current consumption	40mA (1)
Isolation resistance (at 50Vdc)	>1000 MOhm
Full Scale Output (FSO)	5Vdc (M) 10Vdc (N)
Zero balance	0Vdc
Signals adjustment : Nominal pressure Ambient pressure	5% FSO min. 10 bar (150psi)
Maximum load	1mA
Response time (10 to 90% FSO)	~ 4ms
Output noise (RMS 10-400Hz)	< 0.05% FSO
Calibration signal	80% FSO
Protection against output shortcircuit and supply voltage inverted polarity	YES
Protection against output voltage spikes	YES according to 89/336/EEC
Strain gauge housing compensated temperature range	0+76°C 32170°F
Maximum housing temperature range	-30+85°C -22185°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 WN2)	STD : type "J" (isolated junction)
Protection degree	IP65
Electrical connections	6-pin Conn. VPT07RA10-6PT (PT02A-10-6P)
	8-pin Conn. PC02E-12-8P

(1) Conditions: 30Vdc supply, maximum allowed load, calibration shunt inserted FSO = Full Scale Output (output signal at nominal pressure)



D1	1/2 - 20UNF
D2	ø7.8 -0.05 [ø0.31" -0.002]
D3	ø10.5 -0.025 [ø0.41" -0.001]
D4	ø10.67 [ø0.42"]
D5	ø12.7 [ø0.5"]
A	5.56 -0.26 [0.22" -0.01]
В	11.2 [0.44"]
С	15.74 [0.62"]
Ch [Hex]	16 [5/8"]





WN2

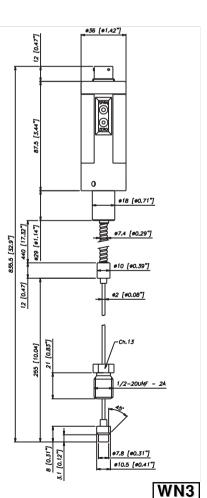
D1	M18x1,5
D2	ø10 -0.05 [ø0.394" -0.002]
D3	ø16 -0.08 [ø0.63" -0.003]
D4	Ø16 -0.4 [Ø0.63" -0.016]
D5	ø18 [ø0.71"]
Α	6 -0.26 [0.24" -0.01]
В	14.8 -0.4 [0.58" -0.016]
С	19 [0.75"]
Ch [Hex]	19 [3/4"]

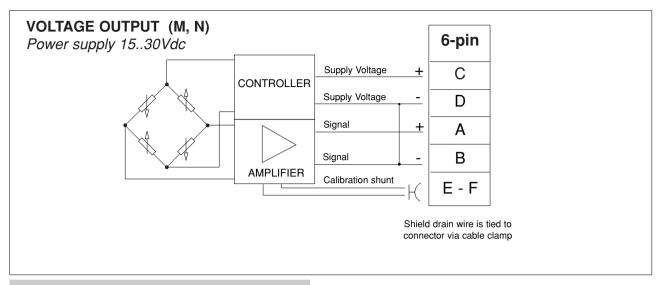
NOTE:

Dimensions refer to rigid stem length option "4" (153mm - 6")

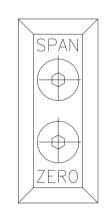
WARNING:

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



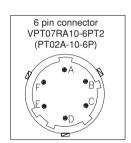


ADJUSTMENTS



ZERO and SPAN adjustment can be made by relative trimpots inside the transmitter body and accessible after removing the two protection screws.

SPAN is factory set and should not be adjusted.



ACCESSORIES

Connectors	
6-pin mating connector (IP65 protection degree)	CON300

Extension cables

6-pin connector with 8m (25ft) cable
6-pin connector with 15m (50ft) cable
6-pin connector with 25m (75ft) cable
6-pin connector with 30m (100ft) cable
C30WLS
Other lengths
Consult factory

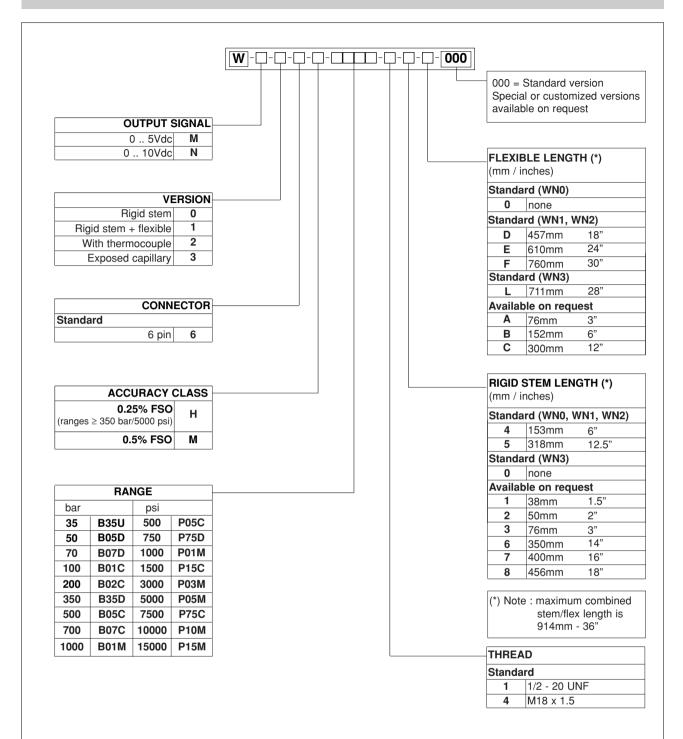
Cable color code		
Conn.	Wire	
Α	Red	
В	Black	
С	White	
D	Green	
E	Blue	
F	Brown	

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 WN2 model

Type "J" (153mm - 6" stem) TTER 718



Examples

WN2-6-M-B07C-1-4-D-000

Melt pressure transmitter with type "J" thermocouple, 0..10Vdc output, 6-pin connector, 1/2-20UNF thread, 700bar full scale, 0.5 % accuracy class, 153 mm (6") rigid stem, 457mm (18") flexible capillary.

WM0-6-M-P03M-1-4-0

Melt pressure transmitter, rigid stem, 0..5Vdc output, 6-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.



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