

WN0



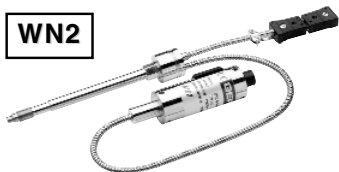
The rigid stem configuration makes installation fast and easy.

WN1



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

WN2



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

WN3



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

Main features

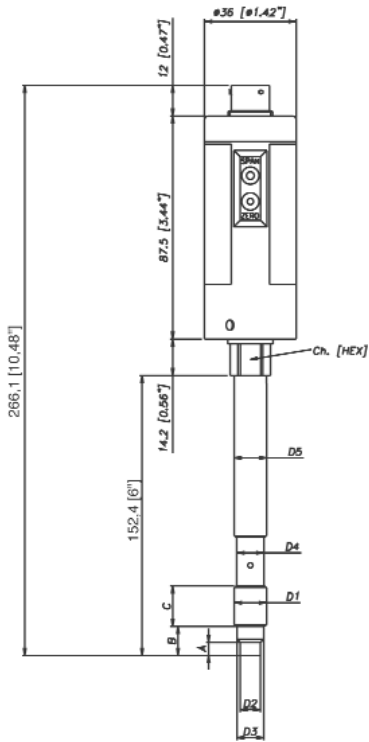
- Pressure ranges from:
0-35 to 0-1000 bar (0-500 to 0-15000 psi)
- Strain gage Wheatstone bridge
- Accuracy: $<\pm 0.25\%$ FSO (H); $<\pm 0.5\%$ FSO (M)
- Internally generated 80% calibration signal (R-Cal)
- Fluid-filled system for temperature stability
- Fully interchangeable with all existing brands
- Grade of protection: IP65 (6-pin connector version)
- 1/2-20 UNF, M18x1.5 threads standard (others available on request)
- 17-7 PH corrugated diaphragm with TiN (Titanium Nitride) coating standard
- Oil-fill is FDA approved — meets requirements CFR172.3620 and 172.828

TECHNICAL SPECIFICATIONS

Nominal accuracy including Linearity, Repeatability, Hysteresis	H $<\pm 0.25\%$ FSO for ranges above 200 bar (3000 psi) M $<\pm 0.5\%$ FSO for ranges 200 bar (3000 psi) and below	
Resolution	Infinite	
Measurement range	0-35 to 0-1000 bar 0-500 to 0-15000 psi	
Maximum overpressure	2 x FSO 1.5 x FSO (above 500 bar [7500 psi])	
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) 10Vdc (N, L)	5.1Vdc (B) 10.1Vdc (C)
Zero balance	0Vdc (M, N, H, L) 0.1Vdc (B, C)	
Signals adjustment:	Nominal pressure	5% FSO
	Ambient pressure	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 short circuit 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 (32–170°F)	
Maximum housing temperature	55°C (130°F)	
Thermal drift in compensated range	Zero shift	4.0%/100°C (2.0%/100°C)
	Sensitivity shift	2.0%/100°C (1.0%/100°C)
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 with process medium	Standard	Corrugated 17-7PH SS (Titanium Nitride coated)
Thermocouple (model MN2)	STD : type "J" (isolated junction)	
Protection degree	IP65	
Electrical connections	6-pin Conn. VPT07RA10-6PT (PT02A-10-6P)	

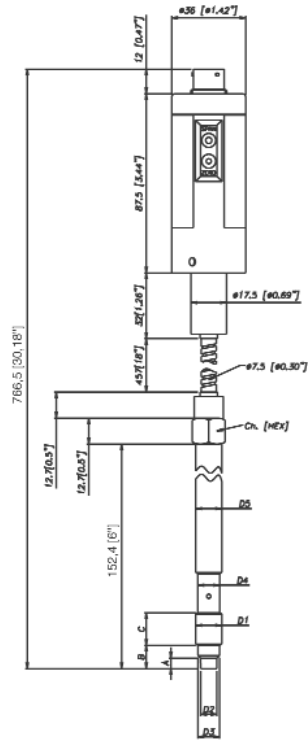
(1) Conditions: 30 VDC supply, maximum allowed load, calibration shunt inserted
FSO = Full Scale Output (output signal at nominal pressure)

MECHANICAL DIMENSIONS

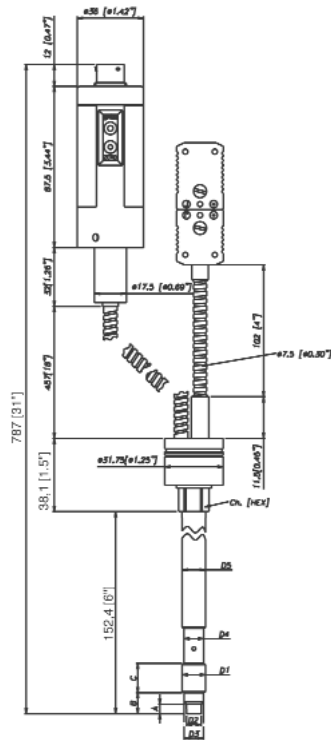


D1	1/2-20 UNF
D2	$\varnothing 7.8 -0.05$ [$\varnothing 0.307$ " -0.002]
D3	$\varnothing 10.49 \pm 0.025$ [$\varnothing 0.413$ " ± 0.001]
D4	$\varnothing 10.67$ [$\varnothing 0.42$ "]
D5	$\varnothing 12.7$ [$\varnothing 0.5$ "]
A	$5.56 -0.26$ [0.219 " -0.01]
B	11.4 [0.45"]
C	15.75 [0.62"]
Ch [Hex]	16 [5/8"]

WN0



WN1



WN2

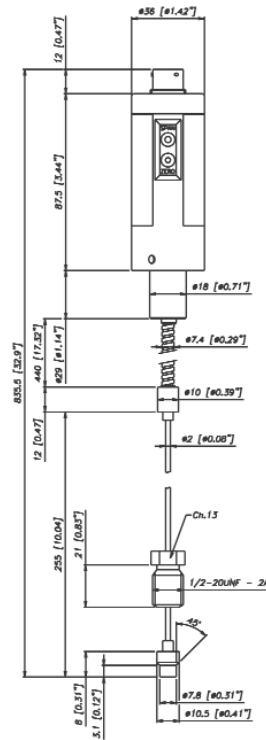
D1	M18x1.5
D2	$\varnothing 10 -0.05$ [$\varnothing 0.394$ " -0.002]
D3	$\varnothing 16 -0.08$ [$\varnothing 0.630$ " -0.015]
D4	$\varnothing 16 -0.4$ [$\varnothing 0.630$ " -0.015]
D5	$\varnothing 18$ [$\varnothing 0.71$ "]
A	$6 -0.26$ [0.236 " -0.010]
B	$14.8 -0.4$ [0.580 " -0.016]
C	19 [0.75"]
Ch [Hex]	19 [3/4"]

NOTE:

Dimensions refer to rigid stem length option "4" (153mm – 6") and flex length option "D" (457mm – 18")

WARNING:

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

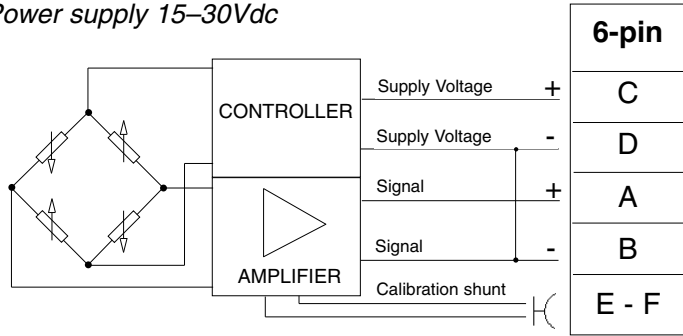


WN3

ELECTRICAL CONNECTIONS

VOLTAGE OUTPUT (M, N, B, C)

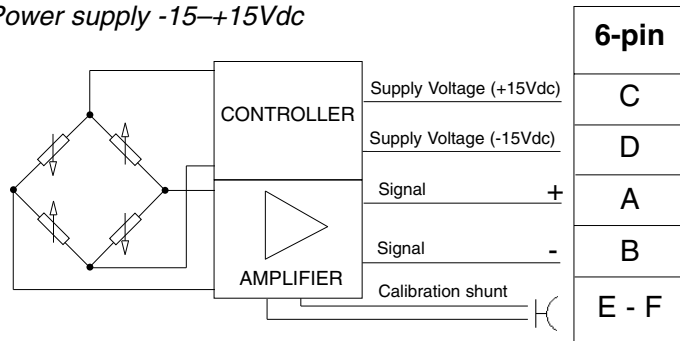
Power supply 15–30Vdc



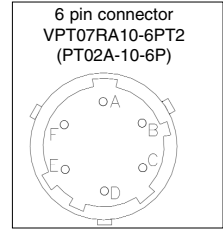
Shield drain wire is tied to connector via cable clamp

VOLTAGE OUTPUT (H, L)

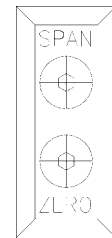
Power supply -15–+15Vdc



Shield drain wire is tied to connector via cable clamp



ADJUSTMENTS



ZERO and SPAN adjustment can be made by trim pots 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) cableC08WLS
 6-pin connector with 15m (50ft) cableC15WLS
 6-pin connector with 25m (75ft) cableC25WLS
 6-pin connector with 30m (100ft) cableC30WLS
 Other lengthsconsult factory

Accessories

Mounting bracketSF18
 Dummy plug for 1/2-20UNFSC12
 Dummy plug for M18x1.5SC18
 Drill kit for 1/2-20UNFKF12
 Drill kit for M18x1.5KF18
 Cleaning kit for 1/2-20UNFCT12
 Cleaning kit for M18x1.5CT18

Thermocouple for WN2 model

Type "J" (153mm - 6" stem)TTER718

Cable color code

Conn.	Wire
A	Red
B	Black
C	White
D	Green
E	Blue
F	Brown
G	n.c.
H	n.c.

ORDER CODE

W - - - 6 - - - - - - - - - - 000

OUTPUT SIGNAL	
0-5 VDC	M
0-10 VDC	N
0.1-5.1 VDC	B
0.1-10.1 VDC	C
0-5 VDC (-15/+15VDC supply)	H
0-10 VDC (-15/+15VDC supply)	L

VERSION	
Rigid Stem	0
Rigid Stem + Flex	1
With Thermocouple	2
Exposed Capillary	3

CONNECTOR	
6 pin	6

ACCURACY CLASS	
0.25% FSO (ranges \geq 350 bar/5000 psi)	H
0.50% FSO	M

RANGE			
bar		psi	
35	B35U	500	P05C
50	B05D	750	P75D
70	B07D	1000	P01M
100	B01C	1500	P15C
200	B02C	3000	P03M
350	B35D	5000	P05M
500	B05C	7500	P75C
700	B07C	10000	P10M
1000	B01M	15000	P15M

000 = Standard version
Special or customized versions available on request

FLEXIBLE LENGTH * (mm/inches)		
Standard (WN0)		
0	none	
Standard (WN1, WN2)		
D	457 mm	18"
E	610 mm	24"
F	760 mm	30"
Standard (WN3)		
L	711 mm	28"
Available on request		
A	76 mm	3"
B	152 mm	6"
C	300 mm	12"

RIGID STEM LENGTH * (mm/inches)		
Standard (WN0, WN1, WN2)		
4	153 mm	6"
5	318 mm	12.5"
Standard (WN3)		
0	none	
Available on request		
1	38 mm	1.5"
2	50 mm	2"
3	76 mm	3"
6	350 mm	14"
7	400 mm	16"
8	456 mm	18"

THREAD	
1	1/2-20 UNF
4	M18 x 1.5

* Note: Maximum overall length
(sum of flex and stem) is
912 mm (36")

Examples

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

Melt pressure transmitter with type "J" thermocouple, 0-10 VDC output, 1/2-20 UNF thread, 700 bar full scale output, 0.25% accuracy class, 153 mm (6") rigid stem, 457mm (18") flexible capillary.

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

Melt pressure transmitter, rigid stem, 0-5 VDC output, 1/2-20 UNF thread, 3000 psi full scale, 0.50% 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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