

W30



The rigid stem configuration makes installation fast and easy

W31



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

W32



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

W33



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

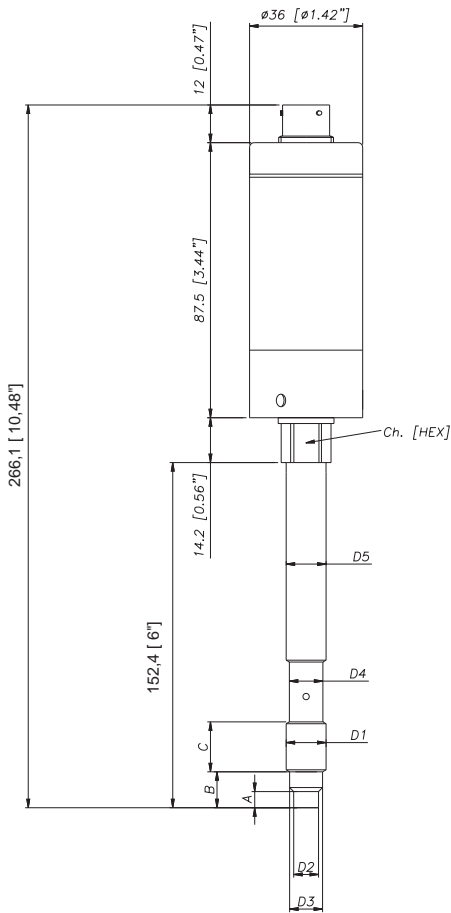
Main features

- Pressure ranges from:
0-35 to 0-1000 bar / 0-500 to 0-15000 psi
- Strain gage Wheatstone bridge
- Accuracy :
$\pm 0.25\% \text{ FSO (H)}$; $\pm 0.5\% \text{ FSO (M)}$
- 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

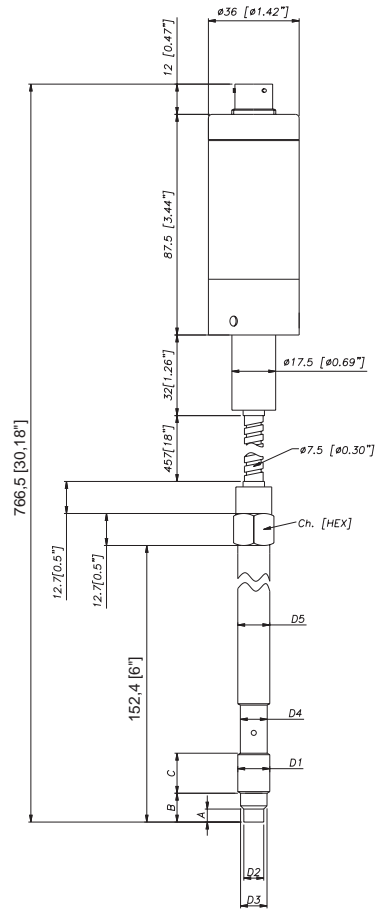
Nominal accuracy including Linearity, Repeatability, Hysteresis	H $\pm 0.25\% \text{ FSO (350...1000 bar)}$ M $\pm 0.5\% \text{ FSO (35...1000 bar)}$
Resolution	Infinite
Measurement range	0..35 to 0..1000bar 0..500 to 0..15000psi
Maximum overpressure	2 x FS 1.5 x FS above 500bar/7500psi
Measurement principle	Strain gage Wheatstone bridge
Supply voltage	6..12Vdc (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	$\pm 5\%$
Calibration signal	80% FSO
Strain gauge housing compensated temperature range	0...+100°C 32...212°F
Maximum housing temperature range	-30...+120°C -22...250°F
Thermal drift in compensated range Zero/Calibr./Sens.	<math>< 0.02\% \text{ FSO}/^\circ\text{C}</math> <math>< 0.01\% \text{ FSO}/^\circ\text{F}</math>
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 with process medium	- Standard 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



W30

D1	1/2 - 20UNF
D2	$\varnothing 7.8 - 0.05$ [$\varnothing 0.31$ " - 0.002]
D3	$\varnothing 10.5 - 0.025$ [$\varnothing 0.41$ " - 0.001]
D4	$\varnothing 10.67$ [$\varnothing 0.42$ "]
D5	$\varnothing 12.7$ [$\varnothing 0.5$ "]
A	5.56 - 0.26 [0.22" - 0.01]
B	11.2 [0.44"]
C	15.74 [0.62"]
Ch [Hex]	16 [5/8"]

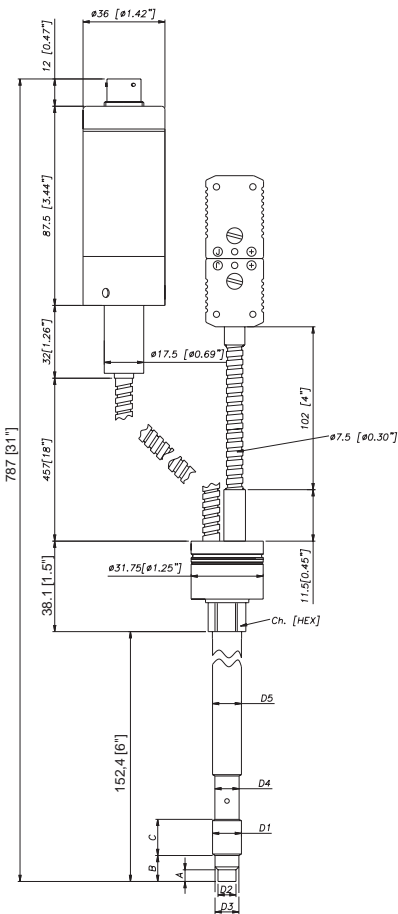


W31

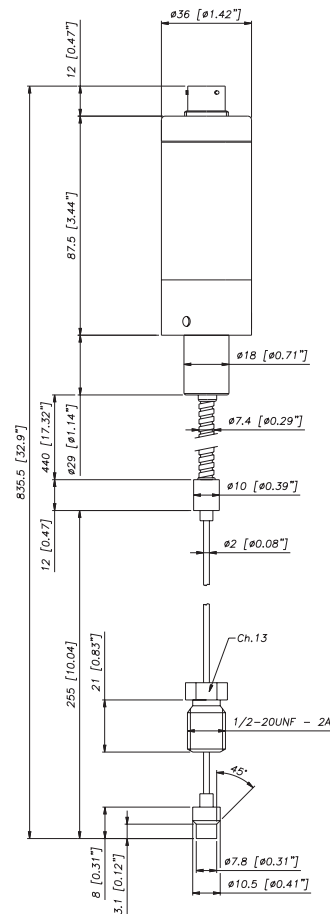
D1	M18x1,5
D2	$\varnothing 10 - 0.05$ [$\varnothing 0.394$ " - 0.002]
D3	$\varnothing 16 - 0.08$ [$\varnothing 0.63$ " - 0.003]
D4	$\varnothing 16 - 0.4$ [$\varnothing 0.63$ " - 0.016]
D5	$\varnothing 18$ [$\varnothing 0.71$ "]
A	6 - 0.26 [0.24" - 0.01]
B	14.8 - 0.4 [0.58" - 0.016]
C	19 [0.75"]
Ch [Hex]	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)



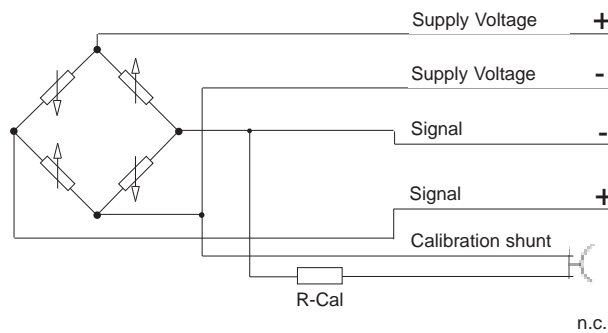
W32



W33

ELECTRICAL CONNECTIONS

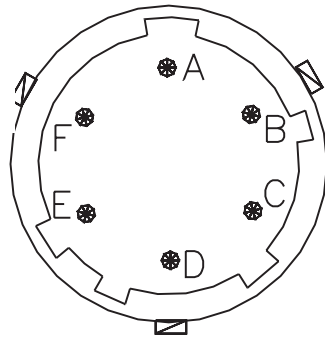
mV/V OUTPUT



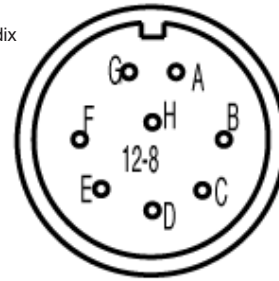
6-pin	8-pin
C	A
D	C
B	D
A	B
E - F	E - F
	G - H

Connect the cable sheathing to the side of the instrument.

6 pin connector
VPT07RA10-6PT2
(PT02A-10-6P)



8 pin connector
PC02E-12-8P Bendix



ACCESSORIES

Connectors

6-pin mating connector (IP65 protection degree)

8-pin mating connector

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

Other lengths

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

Thermocouple for W32 model

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

CON300

CON307

C08W

C15W

C25W

C30W

consult factory

SF18

SC12

SC18

KF12

KF18

CT12

CT18

TTER 718

Cable color code

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

ORDER CODE

W - - - - - - - - - - 000

OUTPUT SIGNAL		
2.5 mV/V		2
3.33 mV/V		3

VERSION	
Rigid stem	0
Rigid stem + flexible	1
With thermocouple	2
Exposed capillary	3

CONNECTOR	
Standard	
6 pin	6
8 pin	8
Available on request	
Cannon WK 6-32S/1	G
Cannon WK 6-32S/2	B

ACCURACY CLASS		
0.25% FSO (ranges ≥ 350 bar/5000 psi)		H
0.5% 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 (W30)		
0	none	
Standard (W31, W32)		
D	457mm	18"
E	610mm	24"
F	760mm	30"
Standard (W33)		
L	711mm	28"
Available on request		
A	76mm	3"
B	152mm	6"
C	300mm	12"

RIGID STEM LENGTH (*) (mm / inches)		
Standard (W30, W31, W32)		
4	153mm	6"
5	318mm	12.5"
Standard (W33)		
0	none	
Available on request		
1	38mm	1.5"
2	50mm	2"
3	76mm	3"
6	350mm	14"
7	400mm	16"
8	456mm	18"

(*) Note : maximum combined stem/flex length is 914mm - 36"

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

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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