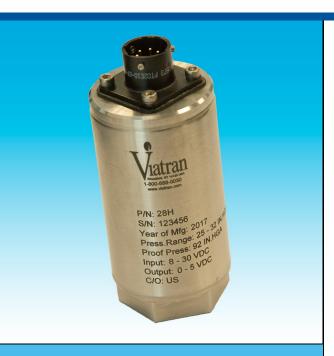


Model 28H

Barometric Pressure Transducer



MODEL 28H BAROMETRIC PRESSURE TRANSDUCER

0-5 VDC, HIGH ACCURACY, 25" THRU 32" HGA

Viatran's Model 28H pressure sensor is among our most accurate pressure transduce rs for industrial test and research applications. The 28H measures barometric pressure from 25" to 32" HgA with standard accuracy of ≤±0.21% FSO.



PERFORMANCE

25" to 32" HgA (Optional ranges can be factory set from 0" to 32" HgA with a minimum 7" HgA span)
≤±0.21% FSO**
≤±0.1% FSO (≤±0.06% FSO with DN option)
≤±0.13% FSO each
5 Vdc ≤±0.5% FSO at 70°F (21°C) Standard 10 Vdc ≤±0.5% FSO at 70°F (21°C) Optional
Infinite
≤±0.5% FSO per 6 months (typical)
32°F to 170°F (0° to 77° C)
-40°F to 250°F (-40°C to 121°C)
-40°F to 185°F (-40°C to 85°C)
-40°F to 185°F (-40°C to 85°C)
≤±0.01% FSO per 1°F (.556°C)
≤±0.01% FSO per 1°F (.556°C)

ELECTRICAL

LLLCTRICAL		
Supply Voltage	8 to 30 Vdc at 3.5 mA nominal, 5 mA max 12 to 30 Vdc (10 Vdc Output Option)	
Power Supply Regulation	≤±0.01% FSO per volt change over the supply voltage range	
Output Signal	0 - 5 Vdc (Standard) 0 - 10 Vdc (Optional)	
Load Resistance	100K Ohms minimum	
Circuit Protection	Input polarity may be reversed. Output may be short-circuited indefinitely Over voltage protection to 1000 volts according to EN61000-4-5	
Insulation Resistance	<5 nS to case ground	
Response Time	<2 mSec to reach 90% of full scale	
RFI / EMI Suppression	CE EMC compliant per IEC EN 61326-1 & 61326-2-3 Annex BB, CE marked	
Electrical Connection	Bendix / Amphenol PT02E-10-6P, mates PT06E-10-6S (SR)	
Pin Outs	Pin A + Power Pin B - Power Pin C + Signal Pin D - Signal Pin E No connection Pin F No connection	
Shell	Ground	

Model 28H Barometric Pressure Transducer



High Accuracy



Many Options available



All Stainless Steel construction



Low Pressure Applications

MATERIALS OF CONSTRUCTION

Wetted Parts	316 stainless steel	
Housing	304 SS with an Aluminum alloy, black zinc-cobalt plated electrical connector	
Weight	10 oz (283 g)	
MECHANICAL		
Pressure Connection	1/4" - 18 NPT female	
Proof Pressure	45 PSI (92 HgA)	
Burst Pressure	75 PSI (153 HgA)	
Pressure Cavity Volume	1.5 mL	
Mounting	May be supported by process piping	
Identification	Laser etched onto body	
OPTIONS		
BF	(K)PTIH-10-6P	
BG	DIN 43650	
BL	WK6-32S	
BN	(K)PTIH-8-4P	
BQ	(K)PT02H-10-6P	
BR	CF3102E-14S-6P	
ZU	Direct Cable: 175°F (79°C) max temperature	
Υ()	Multiple pressure ports available. Consul factory	
DC	Extended temperature operation: -40°F to 170°F (-40°C to 77°C)	
DG	Improved temperature compensation (± 0.5% FSO per 100°F (55.6°C) zero and span shift)	
DH	Special ranging	
DM	Modified full scale output	
DN	Improved Accuracy (Non Linearity) ≤±0.06 FSO	
DQ	Cleaning for oxygen service	
EA	Special calibration run	
NH	Customer specified identification	
PW	Scaled with Process Meter	
VU	1/8" Barbed (Male) Port	

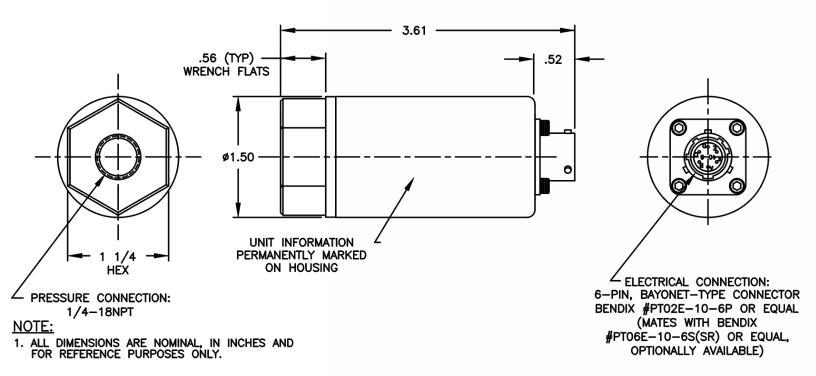
Model 28H Barometric Pressure Transducer

NOTES

Note:		ication of some available options may affect standard performance. sult Viatran for details.	
*RSS	Root Sum Squared for Non-Linearity, Hysteresis, Repeatability		
**FSO	The algebraic difference between full scale pressure output value and the minimum pressure output value.		
***Calibra	ation	Calibration is performed at ambient temperature of 70°F (21°C). Maximum thermal error was calculated from this datum.	

Pressure reference temperature = $32^{\circ}F$ (0°C)

DIMENSIONAL DATA:



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Model 28H Barometric Pressure Transducer

Notes:



