



FEATURES

- Many options available
- Small size and weight
- High accuracy options
- All stainless steel construction
- 0-100 to 0-30,000 PSI ranges
- Shunt calibration circuit option
- Zero adjustment option

TYPICAL APPLICATIONS

- Engine test stands
- Turbine-rocket
- Diesel-internal combustion
- Emission testing
- Production test stands
- Transmission testing
- Off-Road vehicles
- Compressors and pumps
- Stamping Presses
- Rolling mills
- Die casting



STATE-OF-THE-ART DESIGN DELIVERS NEEDED ACCURACY

Viatran's 24B and 34B are one of our most versatile pressure transducers / transmitters for industrial applications.

The 24B/34B measures from 100 PSI to 30,000 PSI with standard linearity of \leq ±0.25% FSO. Improved linearity of ±0.15% or ±0.10% FSO are available as options.

ISOLATED SHUNT CALIBRATION OPTION

Also available is an isolated calibration signal circuit. This option allows calibration of the transmitter without an external pressure source and minimizes the need to send the transmitter to a Metrology lab.

CIRCUIT PROTECTION

To maintain excellent performance and ensure immunity in electrically noisy environments, both mechanical and electrical designs are optimized for EMI handling. Sample devices were extensively tested in a simulated environment allowing for the development of a more reliable and robust product.

OUR COMMITMENT TO QUALITY

The "X4B" series design will perform and maintain on site durability in the most severe applications. To satisfy your unique application requirements, Viatran will also modify our standard products to meet your needs.

Viatran's vision is to be your fastest, easiest and most trusted solution.

Call us today to explore the solutions we have to offer.

1.800.688.0030

Your local applications specialist:

PERFORMANCE		Nonlinear	rity (Best Fit Straig	ht Line)	0-100 thru 30,000 PSIG (≤±0.25% FSO ≤±0.10% FSO each	PSIS FOR	> 1500 PSI)
Full Scale Output (FSO)		Model 24B					
		Resolutio	span balance n m Stability			ths	
	Temperature Shift	Compensated Temperature			70°F to 170°F (21°C to 77°C)		
		Storage Temperature Limits		-40°F to 250°F (-40°C to 121°C) - process -40°F to 185°F (-40°C to 85°C) – ambient			
		Temperature Effect on Zero Temperature Effect on Span					
ELECTRICAL	Supply Voltage	Model 24	Model 24B		8 to 30 Vdc at 3.5 mA nominal, 5 mA max (12 to 30 Vdc for 10 Vdc output option)		
			В				
	0 (10 (0) 1				≤±0.01% FSO per volt change over the supply voltage range		
	Output Signal	Model 34B Circuit Protection			0 - 5 Vdc standard (see options) 4 to 20 mA Reverse polarity protected. Output may be short circuited indefinitely. Over voltage protection to 1000 volts according to EN61000-4-5		
					<5 nSec to case ground		
		ilisulatioi	1 1\6313ta1166		≤ 15K PSI		0-20K and 0-30K PSI
			Response Time			full scale	<3 mSec to reach 90% of full scale
		•			CE EMC compliant per IEC EN 61326. CE marked.		
		• • • • • • • • • • • • • • • • • • • •		Amphenol PT02E-10-6P, mates PT06E-10-6S (SR)			
	Pin Outs		Model 24B		Model 34B		
		Pin A Pin B Pin C	+Power -Power +Signal		+ Power/Signa - Power/Signal No connection		
		Pin D Pin E	-Signal		No connection		
		Pin F	No connection No connection		No connection No connection		
		Shell	Ground		Ground		
MATERIALS OF C			≤ 15K	PSI	0-20K a	nd 0-30K PSI	
	arts		15-5 PH Stainless steel		13-8 Mo Stainless steel		
HousingIdentification					300 Seri	es Stainless steel	
			Permanen	tly marked on body of unit	Permane	ently marked on body of unit	
	Weight			10 oz (283	g) nominal	14 oz (3	97 g) nominal

ACCESSORIES

- Direct Mount Digital Indicator/Power SupplyMating Electrical Assembly
- Ruggedized Connectors & Cable Assemblies





MECHANICAL	Pressure Connection	1/4" - 18 NPT female	Autoclave F250C female		
	Proof Pressure	1.5X range or 21,500 PSI max	1.2X Range		
	Burst Pressure	3X range or 35,000 PSI max	1.5X Range		
	Pressure Cavity Volume	4.5 ml	1.6 mL		
	Mounting	May be supported by process piping	May be supported by process piping		
OPTIONS	BF	. (K)PTIH-10-6P			
OPTIONS	BG	DIN 43650			
	BL	. WK6-32S			
	BN	. (K)PTIH-8-4P			
	BQ	(K)PTO2H-10-6P			
	BR	. CF3102E-14S-6P			
	DA Isolated shunt calibration circuit				
	DC	Extended Compensated Temperature Range (Cold) -40°F to 170°F (-40°C to 77°C)			
	DG	Improved temperature compensation (≤±1.0% FSO per 100°F zero and span shift)			
	DH	Special ranging			
	DK	. Special calibration setting			

DM Modified full scale output DN Improved linearity (±0.15% FSO) DQ...... Cleaning for oxygen service EA Special calibration run

≤ 15K PSI

0-20K and 0-30K PSI

NW External zero adjustment TH External zero and span adjustment Y() Multiple pressure ports available. Consult factory

LV..... Externally powered, optically isolated shunt cal

EH Extended Compensated Temperature Range (Hot) +70°F to 185°F (21°C to 85°C)

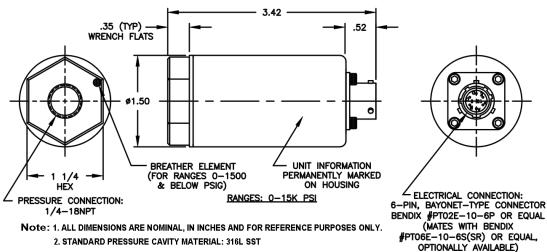
ED Extra improved linearity (±0.10% FSO)

NH Customer specified identification

Note: Application of some available options may affect standard performance. Consult your Viatran representative for details.

DIMENSIONAL DATA

FOR RANGES 0-15,000 PSI



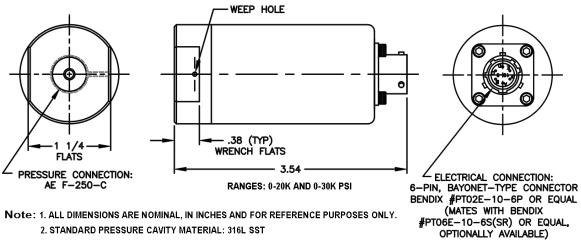
2. STANDARD PRESSURE CAVITY MATERIAL: 316L SST





DIMENSIONAL DATA

FOR RANGES 0-20,000 and 0-30,000 PSI



2. STANDARD PRESSURE CAVITY MATERIAL: 316L SST

INSTALLATION NOTES:

