

PRESSURE TRANSMITTER

Models 24B / 34B



FEATURES

- Many options available
- Small size and weight
- High accuracy options
- All stainless steel construction
- 0-100 to 15,000 PSI (7 to 1000 bar)
- 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
- Hydraulic usage

STATE-OF-THE-ART DESIGN DELIVERS NEEDED ACCURACY

Viatran's 24B and 34B are our most versatile pressure transducers for industrial applications. The 24B/34B measures from 100 PSI to 15,000 PSI (7 to 1000 bar) with standard linearity of $\leq \pm 0.25\%$ FSO.

Improved linearity of $\pm 0.15\%$ or $\pm 0.10\%$ 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.

For more information, contact Viatran.

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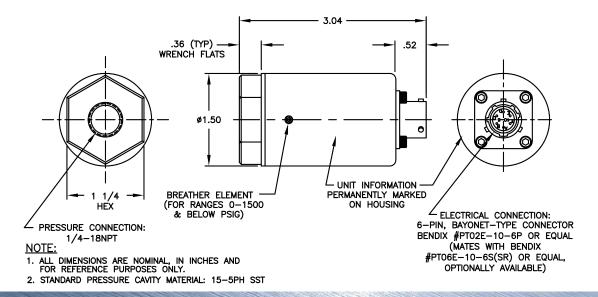
PERFORMANCE		Nonlinearity (Best Fit Straight Line)	0-100 thru 15,000 PSIG (PSIS FOR ≥ 1500 PSI) (7 thru 1000 bar) ≤+0.25% FSO
		Hysteresis & Repeatability	
	Full Scale Output (FSO)	Model 24B	
		Model 34B	•
		Resolution Long Term Stability	
	Tomporatura Shift	Compensated Temperature	
Temperature Shift		·	
		Operating reinperature	40°F to 250°F (-40°C to 121°C) - process -40°F to 185°F (-40°C to 85°C) – ambient
		Storage Temperature Limits	· · · · · · · · · · · · · · · · · · ·
		Temperature Effect on Zero	
		Temperature Effect on Span	•
ELECTRICAL	Supply Voltage	Model 24B	8 to 30 Vdc at 3.5 mA nominal, 5 mA max (12 to 30 Vdc for 10 Vdc output option)
		Model 34B	
		Power Supply Regulation	≤±0.01% FSO per volt change over the supply voltage range
	Output Signal	Model 24B	0 - 5 Vdc standard (see options)
		Model 34B	
		Circuit Protection	Reverse polarity protected. Output may be short circuited indefinitely. Over voltage protection to 1000 volts according to EN61000-4-5
		Insulation Resistance	
		Response Time	·
		'	CE EMC compliant per IEC EN 61326. CE marked.
			Bendix PT02E-10-6P, mates PT06E-10-6S (SR)
		Lieutical Conficulori	Definite 102E-10-01, mates 1 100E-10-00 (OIX)
		Model 24B	Model 34B
	Pin A	+Power	+ Power/Signal
	Pin B	-Power	- Power/Signal
	Pin C	+Signal	No connection
	Pin D	-Signal	No connection
	Pin E Pin F	No connection No connection	No connection
	Shell	Ground	No connection Ground
MATERIALS OF CO	ONSTRUCTION	Wetted Parts	15-5 PH Stainless steel
		Housing	
		Weight	
			Permanently marked on body of unit
ACCESSORIES		 Direct Mount Digital Indicator/Power S Mating Electrical Assembly 	Supply
		 Ruggedized Connectors & Cable Asso 	emblies



Models 24B / 34B

MECHANICAL	Pressure Connection	1/4" - 18 NPT female
	Proof Pressure	1.5 times range or 20,000 PSI (1400 bar) max
	Burst Pressure	3 times range or 35,000 PSI (2400 bar) max
	Pressure Cavity Volume	4.5 ml
	Mounting	May be supported by process piping
ODTIONS	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 cold temperature operation (-40°F to 170°F)
	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	
	EA	Special calibration run
	ED	Extra improved linearity (±0.10% FSO)
	EH	Extended hot temperature operation (70°F to 185°F)
	LV	Externally powered, optically isolated shunt cal
	NH	Customer specified identification
	NW	
	PW	1/8 DIN digital indicator
	TH	External zero and span adjustment
	TW	GOST-R approval
	Y()	Multiple pressure ports available. Consult factory
	ZU	Direct cable (175°F max temp) (79°C)

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





Information is accurate to the best of Viatran's knowledge. We reserve the right to change specifications at anytime. Please contact Viatran for specific order inquiries.