

Models 24B /34B

PERFORMANCE

	Full Scale Pressure Range	0-100 thru 15,000 PSIG (PSIS FOR ≥ 1500 PSI) (7 thru 1000 bar)
	Nonlinearity (Best Fit Straight Line)	≤±0.25% FSO
	Hysteresis & Repeatability	≤±0.10% FSO each
Full Scale Output (FSO)	Model 24B.....	5 Vdc at 70°F (21°C) ±1% FSO
	Model 34B.....	16 mA at 70°F (21°C) ±1% FSO
	Resolution	Infinite
	Long Term Stability	≤±0.3% FSO per 6 months
Temperature Shift	Compensated Temperature.....	70°F to 170°F (21°C to 77°C)
	Operating Temperature.....	-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.....	-40°F to 250°F (-40°C to 121°C)
	Temperature Effect on Zero	≤±2.0% FSO per 100°F
	Temperature Effect on Span	≤±2.0% FSO per 100°F

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.....	8 to 30 Vdc
	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.....	4 to 20 mA
	Circuit Protection	Reverse polarity protected. Output may be short circuited indefinitely. Over voltage protection to 1000 volts according to EN61000-4-5
	Insulation Resistance	<5 nSec to case ground
	Response Time.....	<2 mSec to reach 90% of full scale
	RFI/EMI Suppression.....	CE EMC compliant per IEC EN 61326. CE marked.
	Electrical Connection	Bendix PT02E-10-6P, mates PT06E-10-6S (SR)

	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	No connection	No connection
Pin F	No connection	No connection
Shell	Ground	Ground

MATERIALS OF CONSTRUCTION

Wetted Parts	15-5 PH Stainless steel
Housing.....	304L Stainless steel
Weight	10 oz (283 g)
Identification	Permanently marked on body of unit

ACCESSORIES

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

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

OPTIONS

BF.....	(K)PTIH-10-6P
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 ($\leq \pm 1.0\%$ FSO per 100°F zero and span shift)
DH.....	Special ranging
DK.....	Special calibration setting
DM.....	Modified full scale output
DN.....	Improved linearity ($\pm 0.15\%$ FSO)
DQ.....	Cleaning for oxygen service
EA.....	Special calibration run
ED.....	Extra improved linearity ($\pm 0.10\%$ FSO)
EH.....	Extended hot temperature operation (70°F to 185°F)
LV.....	Externally powered, optically isolated shunt cal
NH.....	Customer specified identification
NW.....	External zero adjustment
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.

