Pressure Transducers

Models #140/240/340

Gage & Absolute

Features

- Durable strain gage technology
- Resistant to pressure spikes
- Small size and weight
- Many options available
- All welded stainless steel construction
- mV/V, 0 to 5 VDC, 4 to 20 mA outputs

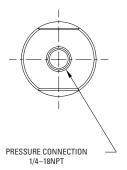
Typical Applications

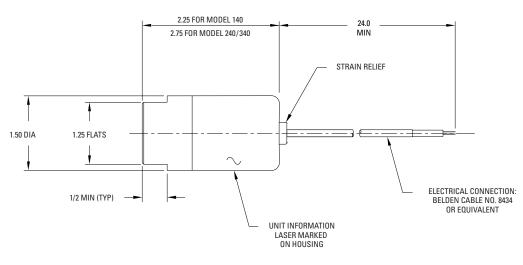
- Hydraulic systems
- Injection molding
- Die casting
- Off road vehicles
- Stamping presses
- Pumps and compressors



Dimensions

ALL DIMENSIONS ARE NOMINAL, IN INCHES AND FOR REFERENCE PURPOSES ONLY







Viatran's "40" Series transducers are specifically designed for applications that demand the most reliable and rugged components. Field failures can shutdown operations, costing equipment manufacturers time and money. Using the right technology and materials helps reduce that risk.

The simple design and proven technology of the "40" Series makes it a low cost alternative to other less reliable transmitters. Development of this product line has been influenced by the diverse application needs of OEM customers. For example, an injection molding application demands high cycle life while die casting equipment needs high overpressure protection. Viatran employs different sensing technologies to meet these different application requirements.

The "40" Series has standard pressure ranges from 5 to 15K PSI. Standard output options include mV/V, 0-5 VDC, and 4 to 20 mA, with additional outputs available.

The "40" Series sensors have no oil fill or isolation diaphragms that can fail. The all welded construction enhances the durability with shock and vibration resistance to 1500 G's. External and wetted surfaces in most ranges are corrosion resistant stainless steel.

Viatran's ability to customize products provides extreme flexibility. Options include alternate pressure ports, electrical connectors and various electrical outputs.

Call us today for more information about our complete product line for industrial equipment manufacturers.

Viatran Model 140/240/340 Specifications

	10/ 040 opconications
Performance	Ontiona Descriptions
Full Scale Pressure Range (FSPR) 0-5, 10, 15 PSIG, PSIV. 0-20, 2	30, 50,
75, 100, 150, PSIG, PSIA. 0-20	300, 30, 300, Codes Alternate Electrical Connectors
400, 500, 750, 1K, 1500, 2K, 3k	5K, BA (K)PT1H-12-8P
7500, 10K, 15K, PSIG	DF (NFITH-TU-OF
Non-Linearity (Best Fit Straight Line) $\leq \pm 0.5\%$ FSO	BG DIN43650
Hysteresis & Repeatability ≤ ±0.25% FSO	BH C21-10-6PN-20-0PI (weld mount)
Full Scale Output (FSO)	BI CF3102E-14S-2P
Model 140 mV/V output, dependent on ran	BK WK4-32S
Model 240 5 VDC	DE WK0323
Model 340 16 mA	BM WKA7-32S
	BN (K)PTIH-8-4P
Resolution Infinite	BQ (K)PT02H-10-6P
Long Term Stability $\leq \pm 0.5\%$ FSO per 6 months	BR CF3102E-14S-6P
Operating Temperature Range -20° F to +190° F (150° units w	n cable) BS CF3102E-14S-5P
Storage Temperature Range –65° F to +250° F (150° units v	th cable)
Temperature Effect on Zero ≤ ± 2.0% FSO per 100° F typical [−]	BY (K)PT02E-10-6P ZD (K)PT02A-8-4P
Effect on Span ≤ ± 2.0% FSO per 100° F typical	ZD (K)PT02A-6-4P ZS CF3102E-14S-6S
	ZS CF3102E-143-03 ZW (K)PT02H-8-4P
Electrical	Alternate Pressure Ports
Supply Voltage	YA MS33649-04
140: 0 to 250 PSI 3.5 V to 30 V (AC or DC)	YG MS16142-04
≥300 PSI 10 V to 15 V (AC or DC)	
240 10 to 32 VDC	YK 1/4 NPT (M) (<300PSI) Performance Options
340 10 to 36 VDC	
Power Supply Regulation $\leq \pm 0.05\%$ FSO	CL Additional Cable (2 feet standard) DE Internal calibration
Volt over the supply voltage ran	
(240/340 only)	DG Infproved temperature compensation DH Special ranging
Output Signal	DL Inconel pressure cavity
140: 0-10 to 0-250 PSI 1.6 to 5.5 mV/V	DM Modified full scale output
300 to 20K PSI 2.7 to 3.7 mV/V	DQ Cleaning for Oxygen service
240 0 to 5 VDC	EA Special calibration run
340 4 to 20 mA	GA Viton® O-Ring
Output Impedance	GD Ethylene Propylene O-Ring
	NH Customer specified ID
140 5,000 Ohms nominal	NS Noise Reduction
240 ≤ 10 Ohms	NW External zero adjust
Load Impedance	PW 1/8 DIN Digital indicator
340 1000 Ohms maximum at 30 VD	Note: Application of some available options may affect standard performance.
Circuit Protection Reverse polarity protected	Consult your Viatran representative for details.
Insulation Resistance >1000 MegOhms at 50 VDC	
Response Time ≤ 5 mSec for 90% of FSO	Accessories Digital indicators
Electrical Connections 24" direct coupled cable, 4 co	luctor, Mating electrical connector/assembly
shielded with PVC jacket.	Mounting bracket
Model 140/240 Model 340	
Red + Power + Power / Sig	
Green – Power – Power / Sig	
Black + Signal No connection	
White – Signal No connection	All Dimensions are nominal, in inches and for reference purposes only
NOTE: Model 240—Green and white are internally connected	
	MODEL 240 WITH
Mechanical	(optional)
Pressure Connections 1/4" NPT Female	1/2 BENDIX #PT02E-10-6P OR EQUAL
Proof Pressure 1.5 times FSPR or 20K PSI, whic	ver is less 10-65 (SR) OR EQUAL,
Burst Pressure	OPTIONALLY AVAILABLE)
0 to 250 PSI 2.5 times FSPR	
>300 PSI 5 times FSPR or 80K PSI, which	er is less
Pressure Cavity Volume 0.07 cubic inches	39/16
Mounting May be supported by process c	
Materials of Construction	
Wetted Parts	
0-10 thru 250 PSI 316 stainless steel, Buna-N O-F	
Alumina ceramic	5/8 (TYP)
0-300 PSI and above 15-5PH stainless steel	
Housing 300 series SST, polyvinylchloric	
الالتا التكاب للملا المصح بما ماجم السماديل محا	
jacketed cable and foil shield wi	
jacketed cable and foil shield wi	FLATS FLATS
strain relief	

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