

Model 574 Pressure Transmitter



MODEL 574 PRESSURE TRANSMITTER

LOW RANGE DIFFERENTIAL PRESSURE, HAZARDOUS LOCATION APPROVAL

Viatran's 574 Series differential pressure transmitters are extremely accurate and durable units, designed specifically for test applications.

The model 574 comes with hazardous location option and has sealed external zero and span adjustments. The variable capacitance sensing technology provides extremely high overpressure protection, and long range stability, as well as high accuracy of 0.15%BFSL.



PERFORMANCE

PERFORMANCE	
Full Scale Pressure Ranges	0-5, 10, 20, 50, 100, 300, 750" WCD 0-15, 50, 100 PSID
Nonlinearity (Best Fit Straight Line)	≤±0.15% FSO
Hysteresis	≤±0.1% FSO
Repeatability	≤ ±0.1% FSO
Full Scale Output (FSO)	16 mA at 70° F (21°C)
Resolution	Infinite
Long Term Stability	≤±0.1% FSO per 6 months
Zero Shift with Base Pressure	≤±2.0% FSO per 1000 PSI
Span Shift with Base Pressure	≤±1.0% FSO per 1000 PSI
Zero Shift After 3000 PSI Overload	Side Angle: ≤± 0.1% FSO Alternate Angle: ≤±0.5% FSO
Compensated Temperature Range	70°F to 170°F
Operating Temperature Range	5"WC to 50"WC 100"WC to 100 PSI 0° F to +170° F -40° F to +170° F
Storage Temperature Limits	5"WC to 50"WC 100"WC to 100 PSI 0°F to +170° F -40° F to +170° F
Temperature Effect on Zero	≤± 1.0% FSO per 100° F
Temperature Effect on Span ELECTRICAL	≤± 1.0% FSO per 100° F
Supply Voltage	8.5 to 40 Vdc
Power Supply Regulation	≤±0.02% FSO per volt over supply voltage range
Output Signal	4 to 20 mA
Load Impedance	1500 Ohms maximum at 40 Vdc
Zero Adjustment	-100% FSO elevation to +50% FSO suppression of the standard range
Span Adjustment	Rangeable down, 5:1 from standard range
Calibration Signal	20% of FSPR externally switched
Calibration Signal Accuracy	$\leq \pm 1\%$ of the stated value
Circuit Protection	Varistor protected across the input leads for surges above 40V and currents to 250 Amps peak with a pulse width of 8 x 20 µSec. Reverse polarity protected
Insulation Resistance	>1000 MegOhms to case ground at 40 Vdc and 70° F
Response Time	10% to 90% FS Faster response available with NF option.
Electrical Connection	1/2" NPT male, 3 wires, 18 AWG

RED + Signal / Power BLACK - Signal / Power GREEN Case Ground

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Wire Codes

Model 574 Pressure Transmitter



High Accuracy



Many Options available



ShuntCal



Low Pressure Applications

Viatran's Model 574 differential pressure transmitter employs variable capacitance sensing technology for extreme reliability and high accuracy.

The 574 measures pressures from 5" WC to 100 PSI with over pressure protection to 3000 PSI.

The all welded 316 stainless steel construction allows the airtight and watertight 574 to be in corrosive environments, including salt air or caustic solutions.

External zero, span and calibration controls are hermetically sealed, yet are easily adjusted with Viatran's magnetically coupled drive system. The signal conditioner in the 574 allows for 5:1 ranging of the transmitter's standard pressure range.



CSA Explosion Proof Certificate of Compliance



US Intrinsic Safety Certificate of Compliance



Russian Metrology Certificate

MECHANICAL

Pressure Connection	1/4" NPT female on 2-1/8" centers on flanges 1/2" NPT female on 2", 2-1/8" or 2-1/4" centers with optional adapters
Static Pressure	3000 PSI (maximum)
Proof Pressure	3000 PSID (Single sided)
Burst Pressure	4500 PSID or 4500 PSI base pressure
Diaphragm Displacement	0.002 cubic inches at FSPR
Fill Fluid	Dow DC200 Silicone oil
Mounting	May be supported by process piping or by optional mounting bracket

MATERIALS OF CONSTRUCTION

Housing	316 Stainless Steel
Wetted Parts	316 Stainless steel and Viton O-Ring
Weight	7 lbs.
Identification	Laser etched onto body
OPTIONS	

PERFORMANCE OPTIONS	
DG	Improved temperature compensation to ±1.0% FSO per 100°F
DJ	Submersible connector w/8' cable
DK	Special shunt calibration setting
DQ	Cleaning for oxygen service
EA	Special calibration run
FA	Russian Metrology Certificate
GE	Buna 'N' O-Rings
IJ	Loop powered direct mount indicator with explosion proof housing
MD	FM Intrinsic Safety Label
ME	CSA Explosion Proof Label
NF	Fast response time
NH	Customer specified identification
PW	1/8 DIN digital indicator
NSR	Non standard range
ALTERNATE PRESSURE PORTS	
577	1/1 NDT (E) (1

YL	1/4" NPT (F) square flange
YQ	1/8" NPT (F) square flange

Note:

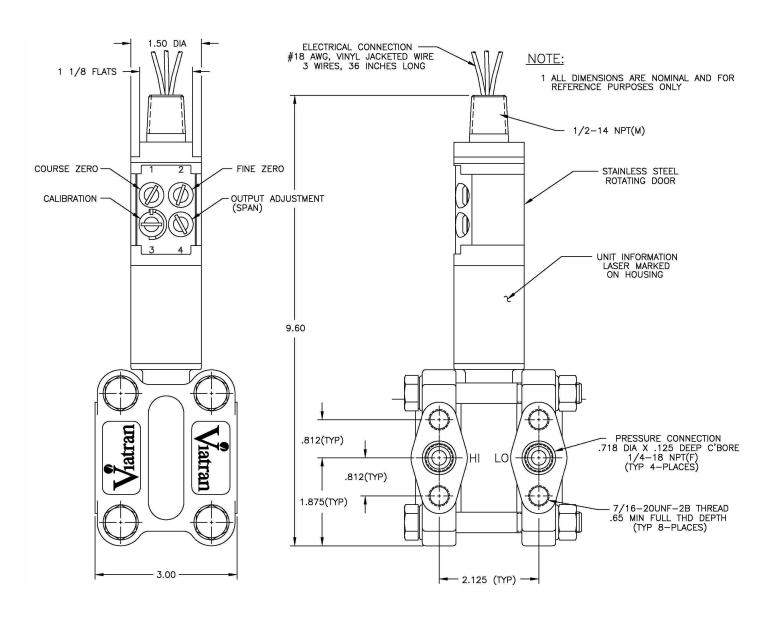
Application of some available options may affect standard performance. Consult your Viatran representative for details.





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DIMENSIONAL DATA:

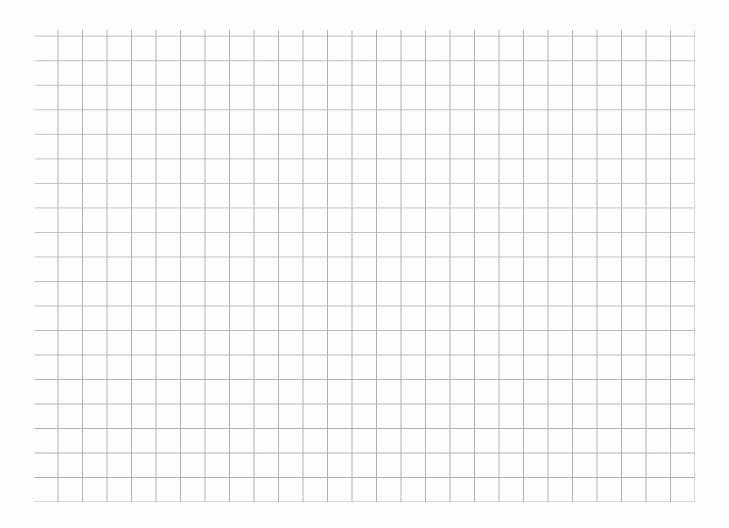






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INSTALLATION NOTES:







Your Local Applications Specialist: