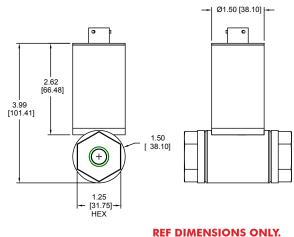


DIFFERENTIAL PRESSURE



MODEL 114 / 214 / 314 ULTRA HIGH DIFFERENTIAL PRESSURE TRANSMITTER

	STANDARD WIRING					
	PIN	MODEL 114	MODEL 214	MODEL 314		
Γ	1/RED	+EXC	+EXC	+EXC/SIG		
Г	2/GRN	+SIG	+SIG	N/C		
Γ	3/WHT	-SIG	N/C	N/C		
	4/BLK	-EXC	-EXC/SIG	-EXC/SIG		
	5/BLU	N/C	N/C	N/C		
Γ	6/BRN	N/C	N/C	N/C		
Γ	SHIELD	OPEN	OPEN	OPEN		



CONSULT FACTORY FOR ACTUAL DIMENSIONS.

PRODUCT OVERVIEW:

The Model 114/214/314 from GP:50 is a family of ultra-high range differential pressure transducers. The series offers +0.50% (BFSL) static accuracy over its standard ranges of 500 to 20K PSID (35 to 1,379 BAR D). Improved accuracy is available to +0.20%. Their rugged, compact design incorporates a unique, non-filled strain gauge sensing technology. These attributes allow the Model 114/214/314 to effectively support high-cycle pressure measurement requirements, even in space constrained environments. An all stainless steel construction, without seals or o-rings, provides high-corrosion resistance. Optional intrinsically safe versions are also available for extreme applications.

FEATURES:

- Ranges from 500 to 20K PSID (35 to 1,379 BAR D)
- mV/V, Vdc and 4-20 mA output
- Compact welded, stainless steel construction
- Non-filled strain gauge technology
- Up to 0.20% FSO accuracy
- Intrinsically Safe (4-20 mA output only)

APPLICATIONS:

- Pump and compressors
- High pressure valve test
- Hydraulic test stand
- High pressure control systems
- High cyclic applications

FIELD OPTIONS:

- mV/V, Vdc & 4-20 mA output
- Zero and span adjustment
- 80% and 100% shunt calibration
- Submersible option available
- Alternate connectors and pressure ports
- Intrinsically safe



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GP:50 MODEL 114 / 214 / 314

REFERENCE SPECIFICATIONS

(Standard configurations shown, consult factory for other options)

ELECTRICAL		
Output Signal:	(Model 114) 3 mV/V Amplified Output (Model 214) 0 to 5 Vdc, 0 to 10 Vdc (alternate outputs available) (Model 314) 4-20 mA	
Excitation Voltage:	(Model 114) 3.5 to 15 Vdc excitation (Model 214) 9.0 to 36 Vdc excitation (0 to 10 Vdc: 13 to 40 Vdc excitation) (Model 314/314Z) 9.0 to 36 Vdc excitation	
Bridge Resistance:	114: 4KΩ-6KΩ (Amplifier on output)	
Connection:	36" long Belden 8723, 22 AWG, 4 conductor cable (or equivalent)	
Circuit Protection:	(Model 214/214): RFI, EMI & Reverse polarity protected	
Response Time:	<5 ms 10% to 90%	

MATERIALS OF CONSTRU	IATERIALS OF CONSTRUCTION		
Wetted Parts:	17-4 PH Stainless Steel (options available, consult factory)		
Housing:	316 Stainless Steel		

ACCURACY (BFSL): Hyste	CURACY (BFSL): Hysteresis, Non-Linearity & Repeatability @ +70 °F		
Standard:	±0.5% FSO		
Improved:	±0.2% FSO		
Zero & Span Balance:	±2.0% FSO at +70 °F (Optional Zero & Span Adjust)		

MECHANICAL	ECHANICAL	
Process Connection:	500-15K PSID:1⁄4″ NPT (F) >15K PSI autoclave F250-C	
Proof Pressure:	5X FSO or 22.5K PSI (1,551 BAR), whichever is less	
Burst Pressure:	10X FSO or 22.5K PSI (1,551 BAR), whichever is less	
Static Line Pressure:	5X differential pressure range or 22,500 PSI, whichever is less	
Zero Shift with Line Pressure:	<±1.0% FSO/1K PSID	
Approximate weight:	1 lb (0.45 kg) some options may affect weight	

PRESSURE RANGES

500 PSID to 20K PSID (35 BAR D to 1,379 BAR D)

THERMAL SPECIFICATIONS

Operating Range:	-40 °F to +250 °F (-40 °C to + 121 °C)	
Compensated Range:	0 °F to +180 °F (-17.7 °C to +82 °C)	
Storage Ambient:	-65 °F to +250 °F (-53 °C to +121 °C)	
Effect on Zero/Span:	±2.0% FSO/100 °F	
Improved or expanded temperature compensation available		



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