

DM - SENSORS

A5SL-011

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LOW RANGE HIGH LINE DIFFERENTIAL PRESSURE TRANSDUCER



Model 216 / 316 Low Range High Line Differential Pressure Transducer

MODEL 216 / 316

FEATURES:

- 2.5" WCD thru 200 PSID (14 BAR)
- Up to 5K PSI (345 BAR) line pressure options available
- Up to $\pm 0.05\%$ FSO accuracy
- Unidirectional and bidirectional outputs
- Wet/wet design
- All welded 316L stainless steel wetted parts
- Compact size
- Fast response time

APPLICATIONS:

- Automotive test stands
- Leak decay
- In-laboratory R&D
- Energy management
- Emissions management
- HVAC

PRODUCT OVERVIEW:

The Model 216/316 from GP:50 is a family of low range, high line, differential pressure transducers. Their compact design incorporates GP:50's own digital correction circuit technology, for high accuracy and extended service life across a variety of applications.

FIELD OPTIONS:

- Wide selection of process and electrical connections
- Submersible options (Meets IP67)
- Alternate wetted materials
- Custom calibrations



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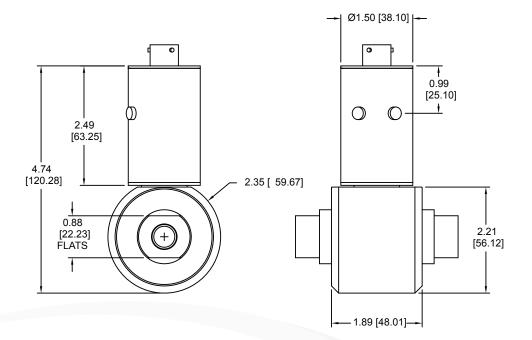
GP:50 MODEL 216 / 316

DIMENSIONAL DRAWING

All dimensions are in inches (mm)

STANDARD WIRING

PIN	MODEL 216	MODEL 316
1/RED	+EXC	+EXC/SIG
2/GRN	+SIG	N/C
3/WHT	N/C	N/C
4/BLK	-EXC/SIG	-EXC/SIG
5/BLU	N/C	N/C
6/BRN	N/C	N/C
SHIELD	OPEN	OPEN



REFERENCE SPECIFICATIONS

ELECTRICAL	MECHANICAL	
• Excitation Voltage: 8.0 to 32 Vdc	Proof Pressure: 500 PSI (35 BAR) single ended	
Output Signal (at +70 °F):	• Burst Pressure: 4K to 5K PSI (276 to 345 BAR); 750 PSI (52 BAR) for welded port	
(Model 216) 0 to 5 Vdc, 0 to 10 Vdc	Static Line Pressure: 2K PSI (138 BAR) standard	
(Model 316) 4-20 mA	5K PSI (345 BAR) optional (consult factory)	
• Load Impedance:	500 PSI (35 BAR) for welded pressure ports (LB option)	
(Model 316) 750 Ω maximum	• Response Time: <50 ms for 90% FSO	
(Model 216) ≤ 10K Ω	• Frequency Response: flat to 100 Hz	
• Zero/span adjustable to ±10%	• Resolution: infinite	
MATERIALS OF CONSTRUCTION	• Orientation shift (90°): zero: ±1 in WC	
• Wetted Parts:	• Silicone oil filled (Krytox and other options available)	
316 stainless steel (Hastelloy available)	• Approximate weight: 2.0 lbs (0.06 kg)	
• Housing:	PRESSURE RANGES	
316L stainless steel	• 2.5" WCD thru 200 PSID (alternate ranges available)	
STATIC ACCURACY (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)	THERMAL SPECIFICATIONS	
$\pm 0.5\%$ FSO standard Improved $\pm 0.2,\pm 0.1,\pm 0.05\%$ FSO	• Compensated (ambient): +32 °F to +180 °F (0 °C to +82 °C)	
STATIC LINE SHIFT	(expanded ranges available)	
• Less than ±1% FSO/1K PSI (69 BAR) for ranges ≥0-21" WC	• Operating (ambient): 0 °F to +185 °F (-17 °C to +85 °C)	
• Less than $\pm 2\%$ FSO/1K PSI (69 BAR) for ranges $\leq 0.20''$ WC	Zero Balance and Span: Adjustable	
	• Zero & Span shift: Std on 0.50% & 0.20%: ±1.0%/100 °F	
	Std on 0.10%: ±0.50%/100 °F	
	Std on 0.05%: ±0.30%/100 °F	

All specifications are for reference purposes only. In the interests of continuous product improvement, all specifications are subject to change without notice. Please contact GP:50 for assistance with your application.



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