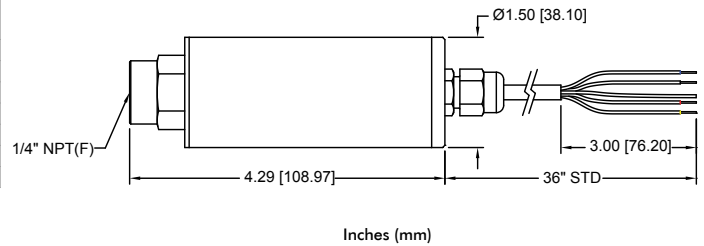


## MODEL M-SPIKE, V-SPIKE, C-SPIKE SPIKE SERIES PRESSURE TRANSDUCER



STANDARD WIRING

WIRE	M-SPIKE	V-SPIKE	C-SPIKE
1/RED	+EXC	+EXC	+EXC/SIG
2/GRN	+SIG	+SIG	N/C
3/WHT	-SIG	N/C	N/C
4/BLK	-EXC	-EXC/SIG	-EXC/SIG
5/BLU	N/C	N/C	N/C
6/BRN	N/C	N/C	N/C
SHIELD	OPEN	OPEN	OPEN



**REF DIMENSIONS ONLY.  
CONSULT FACTORY FOR ACTUAL DIMENSIONS.**

### PRODUCT OVERVIEW:

The Spike Series from GP:50 is a family of pressure transducers, specifically designed to withstand high-amplitude, high-frequency spikes that commonly occur in hydraulic pressure sensing applications. A proprietary sensor design provides increased over pressure protection as high as 10x.

### FEATURES:

- 0 to 100 PSI thru 0 to 15K PSI (7 BAR to 1,034 BAR)
- 3X FSO proof pressure or 22.5K (1,551 BAR), whichever is less
- mV/V, Vdc & 4-20 mA outputs
- Ruggedized, welded, stainless steel construction
- Standard accuracy of  $\pm 0.20\%$  FSO

### APPLICATIONS:

- Die casting
- Injection molding
- Stamping presses
- Hydraulic test stands
- Compressors and pumps

### OPTIONS:

- mV/V, Vdc & 4-20 mA outputs
- Zero & span adjustments
- 80% and 100% shunt calibration
- Alternate connectors & pressure ports

# GP:50 MODEL M-SPIKE, V-SPIKE, C-SPIKE

## REFERENCE SPECIFICATIONS

Standard configurations shown, consult factory for other options

ELECTRICAL	
Output Signal:	(M-Spike) 3 mV/V (Amplified Output) (V-Spike) 0 to 5 Vdc, 0 to 10 Vdc (alternate outputs available) (C-Spike) 4-20 mA
Excitation Voltage:	(M-Spike) 3.5 to 15 Vdc excitation (C-Spike & V-Spike) 4-20 mA, 9.0 to 36 Vdc excitation
Bridge Resistance:	M-Spike Only: 4K-6K $\Omega$ (Amplifier on output stage)
Circuit Protection:	RFI, EMI & Reverse polarity protected
Response Time:	<5 ms 10% to 90%

MATERIALS OF CONSTRUCTION	
Wetted Parts:	17-4 PH stainless steel (options available)
Housing:	316 stainless steel

ACCURACY (Non-Linearity & Repeatability @ + 70 °F (BFSL))	
Standard:	$\pm 0.2\%$ FSO
Improved:	$\pm 0.1\%$ FSO
Zero & Span Balance:	$\pm 1\%$ FSO at + 70 °F for each

MECHANICAL	
Process Connection:	1/4" NPT (F)
Electrical Connection:	36" Long, 24 AWG, 4 conductor PVC jacketed cable
Proof Pressure:	5X-10X FSO (Range Dependant) or 22.5K PSI (1,551 BAR), whichever is less
Burst Pressure:	10X FSO or 22.5K PSI max. (1,551 BAR), whichever is less
Approximate Weight:	10 oz. (0.3 kg) nominal

PRESSURE RANGES
0 to 100 PSI thru 0 to 15K PSI (0 to 7 BAR thru 0 to 1,034 BAR)

THERMAL SPECIFICATIONS	
Operating Range:	-20 °F to +190 °F (-29 °C to +88 °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:	$\pm 1.0\%$ FSO/100 °F

