

SPIKE SERIES PRESSURE TRANSDUCERS

M-SPIKE, V-SPIKE, C-SPIKE



Model M-Spike, V-Spike, C-Spike Series
Pressure Transducers

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

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.

FIELD OPTIONS:

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

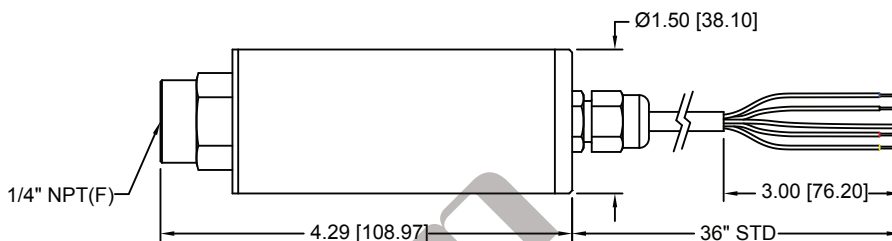
GP:50 MODEL M-SPIKE, V-SPIKE, C-SPIKE

DIMENSIONAL DRAWING

All dimensions are in inches (mm)

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



REFERENCE SPECIFICATIONS

ELECTRICAL
<ul style="list-style-type: none"> Supply Voltage: (M-Spike) 3.5 to 15 Vdc excitation (C-Spike) 4-20 mA, 9.0 to 36 Vdc excitation
<ul style="list-style-type: none"> Output Signal: (M-Spike) 3 mV/V (V-Spike) 0 to 5 Vdc, 0 to 10 Vdc (alternate outputs available) (C-Spike) 4-20 mA, 9.0 to 36 Vdc excitation
<ul style="list-style-type: none"> Load Impedance: (M-Spike) 50K Ω min. for <0.1% FSO attenuation (C-Spike) 1200 Ω max. at 37 Vdc, 600 Ω at 24 VDC (V-Spike) 2.0 mA max. for <0.1% FSO attenuation
<ul style="list-style-type: none"> Connection: 36" Long, 24 AWG, 4 conductor PVC jacketed cable. Circuit Protection: RFI and EMI
<ul style="list-style-type: none"> Input Current: (V-Spike) 8mA nominal Input Impedance: (M-Spike) 5,000 Ω nominal, full bridge Output Current: (V-Spike) 2.0 mA max. for <0.1% FSO attenuation Response Time: <5 ms 10% to 90%

MATERIALS OF CONSTRUCTION
<ul style="list-style-type: none"> Wetted Parts: 17-4 PH stainless steel (options available consult factory) Housing: 316 stainless steel
STATIC ACCURACY (BFSL) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F) <ul style="list-style-type: none"> Standard: $\pm 0.2\%$ FSO Zero Balance and FSO: $\pm 1\%$ FSO at +70 °F for each
MECHANICAL <ul style="list-style-type: none"> Process Connection: 1/4" NPT (F) Proof Pressure: 3X FSO or 22.5K PSI (1,551 BAR), whichever is less Burst Pressure: 5X FSO or 23.5K PSI (1,620 BAR), whichever is less 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 <ul style="list-style-type: none"> Compensated: 0 °F to +180 °F (-17.7 °C to +82 °C) Operating: -20 °F to +190 °F (-29 °C to +88 °C) Storage: -65 °F to +250 °F (-53 °C to +121 °C) Effect on Zero/Span: $\pm 1.0\%$ FSO/100 °F

**Standard configurations shown.
Please consult factory for other options.**

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.