SPIKE SERIES PRESSURE TRANSMITTER
Models M-Spike, V-Spike, C-Spike

Ruggedized unit engineered for high cyclic applications, with improved protection against transient spikes.

FEATURES:
- Choice of outputs
- Optional electric connectors and pressure ports
- Small size (1.5" OD x 3.75" long)

PRESSURE RANGES:
- From 0-100 through 0-15,000 psig

SPECIFICATIONS:
- Standard accuracy 0.2% FSO
- 300% Proof pressure (22,500 max.)

Pressure Type (Standard):
- Gauge/Non-Hermetic Seal (0-300 PSI and above)
- Gauge/Direct/Cable Vented (Below 0-300 PSI)

Accuracy:
- 0.2% (Includes Hysteresis, Non-linearity, Non-Repeatability)

Zero Balance:
- ±1.0% FSO at 70°F

Output Span Tolerance:
- ±1.0% FSO at 70°F

Temperature Limits:
- Compensated: 0°F to +180°F
- Operating: -20°F to +190°F
- Storage: -20°F to +250°F
- Effect on Zero & Span: < ±2.0% FSO/100°F

Electricals:
- Excitation Voltage:
  (Model M-Spike) 3.5-15 Vdc
  (Model V-Spike) 9-40 Vdc (14.5-32 for 0-10V)
  (Model C-Spike) 9-40 Vdc
- Output at 70°F:
  (Model M-Spike) 3.0 mV/V
  (Model V-Spike) 0-5 Vdc
  (Model C-Spike) 4-20 mA
- Output Current:
  (Model V-Spike) 2.0 mA max. for less than 0.1% FSO attenuation.
- Input Impedance:
  (Model M-Spike) 5,000 ohms nominal, full bridge
- Input Current:
  (Model V-Spike) 8 mA nominal
- Load Impedance:
  (Model M-Spike) 50,000 ohms min. for less than 0.1% FSO attenuation
  (Model C-Spike) 1200 ohms max. 37 Vdc & 600 ohms max. at 24 Vdc
- Calibration Signal: Res. value provided on calibration card for 100% FSO

Mechanicals:
- Proof Pressure: 3 X full scale pressure range or 22,500 psi, whichever is less.
- Burst Pressure: 5 X full scale pressure range or 23,500 psi, whichever is less.
- Weight: 10 oz. nominal

Connections:
- Pressure: 1/4" NPT (F) Standard
- Electrical: 3' Polyurethane-jacketed, conductor cable (24 AWG Standard)

Wetted Materials:
- 316 & 17-4 PH SST

GP:50 reserves the right to make product improvements and amendments to the product specifications stated throughout this brochure without prior notification. Please contact the factory on all critical dimensions and specifications for verification.
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Typical configurations (consult factory for more options)

MODEL
M-Spike 3 mV/V
V-Spike 0-5 Vdc
C-Spike 4-20 mA

ACCURACY (SERIES)
C 0.2% FSO
D 0.1% FSO

PRESSURE RANGE (PSI)
<table>
<thead>
<tr>
<th>Code</th>
<th>Range</th>
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<tbody>
<tr>
<td>PZ</td>
<td>0-100</td>
</tr>
<tr>
<td>RB</td>
<td>0-150</td>
</tr>
<tr>
<td>RD</td>
<td>0-200</td>
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<td>RE</td>
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<td>0-1K</td>
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<tr>
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<tr>
<td>RR</td>
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<tr>
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<tr>
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<tr>
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<tr>
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<td>SB</td>
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<tr>
<td>RO</td>
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<tr>
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<td>0-2.5K</td>
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<tr>
<td>RT</td>
<td>0-3K</td>
</tr>
</tbody>
</table>

PRESSURE TYPE
2 Gauge (Direct, 0-299 psi and lower)
3 Absolute
4 Vacuum
7 Gauge (Non-hermetic seal) (0-300 psi & higher)
8 Elevated (Suppressed zero)
10 Compound (Vacuum & gauge pressure)

OPTIONS
AA None

ELECTRICAL CONNECTIONS
AA NEMA-4X (w/36" Pigtail)
CA Bendix 6-pin (or equiv.) Not recommended for ranges below 0-300 psi. Consult factory.
CJ DIN 43650 (w/mate) Hirschman type

PRESSURE PORTS
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<th>Connection</th>
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<td>AA</td>
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GENERAL
GS 0-10 V Output
HL RFI Protection
HE ±0.5% FSO Zero Balance
ME 80% Shunt Cal

Consult factory for other options

NOTE:
Specifications reflect standard product, improved performance / mechanical options available.
Modifications may alter specs, consult factory for more information.