



## Pressure, Level & Temperature Transmitters & Transducers

2770 Long Road, Grand Island, NY 14072 USA

Tel. (716) 773-9300 • Fax (716) 773-5019

sales@gp50.com • www.gp50.com

### SPIKE SERIES PRESSURE TRANSMITTER

#### Models M-Spike, V-Spike, C-Spike

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



(Shown with 'CJ' Option)

#### 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:

- $\pm 1.0\%$  FSO at 70°F

#### Output Span Tolerance:

- $\pm 1.0\%$  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:  $< \pm 2.0\%$  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)

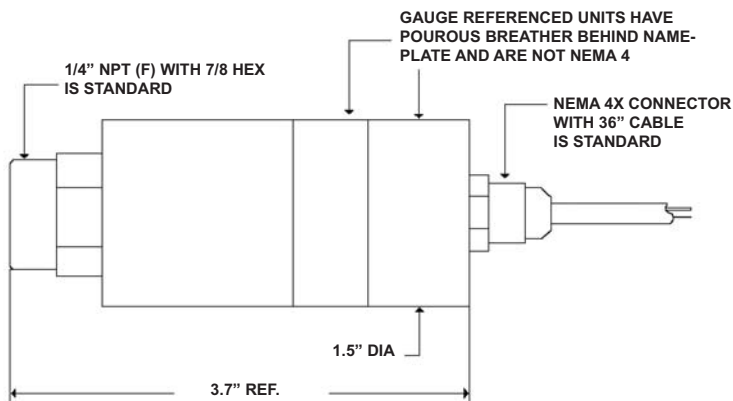
#### Wetted Materials:

- 316 & 17-4 PH SST

#### WIRING:

	M-SPIKE	V-SPIKE	C-SPIKE
A/1 RED	+EXC.	+EXC.	+EXC./SIGNAL
B/2 GREEN	+SIGNAL	+SIGNAL	NC
C/3 WHITE	-SIGNAL	NC	NC
D/4 BLACK	-EXC.	-EXC./SIGNAL	-EXC./SIGNAL
E/5 BLUE	NC	NC	NC
F/6 BROWN	NC	NC	NC
SHIELD	OPEN	OPEN	OPEN

Some options will affect dimensions. Consult factory if important.



A5SL-Spike.00 Rev D

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.



## Pressure, Level & Temperature Transmitters & Transducers

2770 Long Road, Grand Island, NY 14072 USA

Tel. (716) 773-9300 • Fax (716) 773-5019

sales@gp50.com • www.gp50.com

### SPIKE SERIES PRESSURE TRANSMITTER

#### Models M-Spike, V-Spike, C-Spike

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)

**PZ** 0-100      **RO** 0-1.5K

**RB** 0-150      **RR** 0-2K

**RD** 0-200      **RS** 0-2.5K

**RE** 0-250      **RT** 0-3K

**RF** 0-300      **RV** 0-5K

**RH** 0-500      **RX** 0-7.5K

**RJ** 0-600      **RZ** 0-10K

**RK** 0-750      **SB** 0-15K

**RM** 0-1K

#### 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

**AA** 1/4" NPT (F)

**FL** 1/8" NPT (M)

**FJ** 1/4" NPT (M)

**LH** SAE (6) (M)

**LT** SAE (4) (M)

#### 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.