



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)

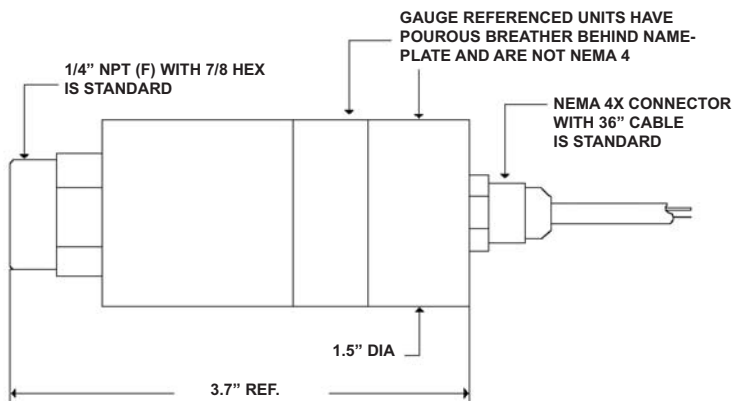
Wetted Materials:

- 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.





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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)

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)

NOTE:

Specifications reflect standard product, improved performance / mechanical options available.

Modifications may alter specs, consult factory for more information.

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

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