



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

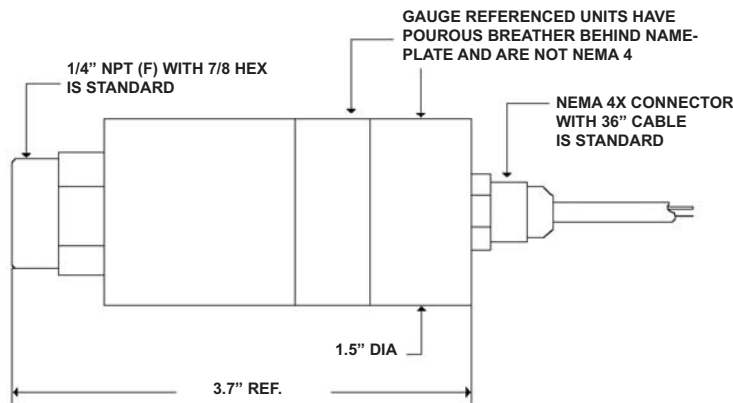
SPECIFICATIONS:

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



(Shown with 'CJ' Option)

SEVERE DUTY



Some options will affect dimensions. Consult factory if important.

WIRING CODE

	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

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.

A5SL-Spike.00 Rev C



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

Output span tolerance	±1.0% FSO at 70°F		
Pressure Type (Standard)	Gauge/Non-Hermetic Seal (0-300 PSI and above) Gauge/Direct/Cable Vented (Below 0-300 PSI)		
Zero Balance	±1.0% FSO at 70°F		
Wetted Material	316 and 15-5 PH Stainless Steel.		
Accuracy	0.2% (Includes hysteresis, non-linearity and repeatability)		
Temperature Limits	Compensated 0°F to +180°F Operating -20°F to +190°F Storage -20°F to +250°F		
Temperature Effects	Zero Less than ±2.0% FSO/100°F Span Less than ±2.0% FSO/100°F		
Electricals	(M-Spike)	(V-Spike)	(C-Spike)
Excitation Voltage	3.5-15 Vdc	9-40 Vdc (14.5-32 for 0-10V)	9-40 Vdc
Output at 70°F	3.0 mV/V	0-5 Vdc	4-20 mA
Input Impedance	5,000 ohms nominal, full bridge		
Input Current	8 mA nominal		
Load Impedance	50,000 ohms minimum, for less than 0.1% FSO attenuation	1200 ohms maximum 37 Vdc and 600 ohms maximum at 24 Vdc	
Output Current	2.0 mA maximum for less than 0.1% FSO attenuation		
Calibration Signal	Resistance value provided on calibration card for 100% FSO		
Mechanicals	Proof Pressure 3 times full scale pressure range or 22,500 psi, whichever is less Burst Pressure 5 times 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)		
Enclosure Material	316 Stainless Steel		

ORDERING GUIDE:

Ordering: Specify model, and pressure range and indicate modifications or accessories required. Use the following codes to identify desired item.

MODEL	SERIES	RANGE	PRESSURE TYPE	OPTIONS
●	+	●	+	●/●/●

Example: C-Spike-C-PZ-2-CA

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	RJ 0-600	RT 0-3K
RB 0-150	RK 0-750	RV 0-5K
RD 0-200	RM 0-1K	RX 0-7.5K
RE 0-250	RO 0-1.5k	RZ 0-10K
RF 0-300	RR 0-2k	SB 0-15K
RH 0-500	RS 0-2.5k	

PRESSURE TYPE

2 Gauge (Direct, 0-299 psi and lower)
3 Absolute
4 Vacuum
7 Gauge (non-hermetic seal) (0-300 psi and 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