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)
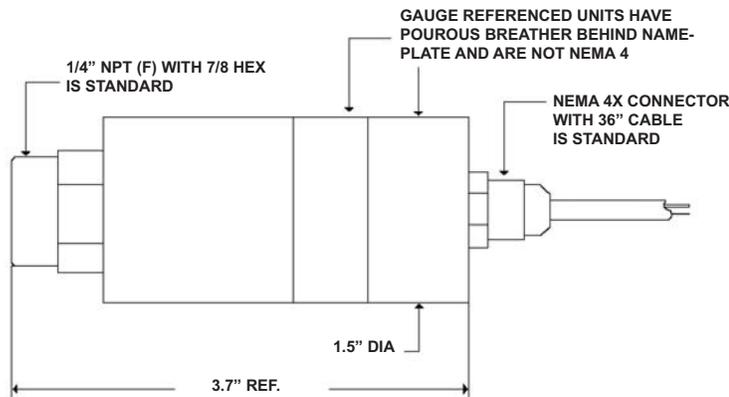
PRESSURE RANGES:

- 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

GAUGE REFERENCED UNITS HAVE
POUROUS BREATHER BEHIND NAME-
PLATE AND ARE NOT NEMA 4

1/4" NPT (F) WITH 7/8 HEX
IS STANDARD

NEMA 4X CONNECTOR
WITH 36" CABLE
IS STANDARD

1.5" DIA

3.7" REF.

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

A5SL-Spike.00 Rev C

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Tect Electronics
The authorized distributor in the Greater China Region

Pressure, Level & Temperature Transmitters & Transducers

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