



Pressure Sensor Characteristics Maximum Ratings

Supply Voltage ,Vs	16 Vdc
Common-mode pressure	50 psig
Lead Temperature (soldering 2-4 sec.)	250°C

Environmental Specifications

Temperature Ranges	
Compensated	0 to 70° C
Operating	-25 to 85° C
Storage	-40 to 125° C
Humidity Limits	0 to 95% RH (non condensing)

Standard Pressure Ranges

Part Number	Operating Pressure	Nominal Span	Proof Pressure	Burst Pressure
4 INCH-D-CGRADE-MV	0 - 4 "H2O	40 mV	1 PSI	5 PSI
0.3 PSI-D-CGRADE-MV	0 - 0.3 PSI	20 mV	5 PSI	5 PSI
1 PSI-D-CGRADE-MV	0 - 1 PSI	18 mV	5 PSI	15 PSI
5 PSI-D-CGRADE-MV	0 - 5 PSI	60 mV	10 PSI	30 PSI
15 PSI-D-CGRADE-MV	0 - 15 PSI	90 mV	60 PSI	120 PSI
30 PSI-D-CGRADE-MV	0 - 30 PSI	90 mV	90 PSI	150 PSI
100 PSI-D-CGRADE-MV	0 - 100 PSI	100mV	200 PSI	250 PSI
150 PSI-D-CGRADE-MV	0 - 150 PSI	90mV	200 PSI	250 PSI
15 PSI-A-CGRADE-MV	0 - 15 PSIA	60mV	60 PSIA	120 PSI

Performance Characteristics for 4 INCH-D-CGRADE-MV

Parameter, note 1	Minimum	Nominal	Maximum	Units
Operating Range, differential pressure		4.0		"H2O
Output Span, note 5	38	40.0	42	mV
Offset Voltage @ zero differential pressure			±1.5	mV
Offset Temperature Shift (0°C-50°C), note 2			±1.5	mV
Linearity, hysteresis error, note 4		0.5	1.0	%fs
Span Shift (0°C-50°C), note 2			±2	%fs

Performance Characteristics for 0.3 PSI-D-CGRADE-MV

Parameter, note 1	Minimum	Nominal	Maximum	Units
Operating Range, differential pressure		0.3		PSI
Output Span, note 5	18	20.0	22	mV
Offset Voltage @ zero differential pressure			±1	mV
Offset Temperature Shift (0°C-70°C), note 2			±1	mV
Linearity, hysteresis error, note 4		0.5	1	%fs
Span Shift (0°C-70°C), note 2			±2	%fs

Performance Characteristics for 1 PSI-D-CGRADE-MV

Parameter, note 1	Minimum	Nominal	Maximum	Units
Operating Range, differential pressure		1.0		PSI
Output Span, note 5	16	18	20	mV
Offset Voltage @ zero differential pressure			±1	mV
Offset Temperature Shift (0°C-70°C), note 2			±1	mV
Linearity, hysteresis error, note 4		0.5	1.0	%fs
Span Shift (0°C-70°C), note 2			±2	%fs

Performance Characteristics for 5 PSI-D-CGRADE-MV

Parameter, note 1	Minimum	Nominal	Maximum	Units
Operating Range, differential pressure		5.0		PSI
Output Span, note 5	57	60	63	mV
Offset Voltage @ zero differential pressure			±1	mV
Offset Temperature Shift (0°C-70°C), note 2			±1	mV
Linearity, hysteresis error, note 4		0.5	1.0	%fs
Span Shift (0°C-70°C), note 2			±2	%fs

Performance Characteristics for 15 PSI-D-CGRADE-MV

Parameter, note 1	Minimum	Nominal	Maximum	Units
Operating Range, differential pressure		15.0		PSI
Output Span, note 5	86	90.0	94	mV
Offset Voltage @ zero differential pressure			±1	mV
Offset Temperature Shift (0°C-70°C), note 2			±1	mV
Linearity, hysteresis error, note 4		0.5	1.0	%fs
Span Shift (0°C-70°C), note 2			±2	%fs

Performance Characteristics for 30 PSI-D-CGRADE-MV

Parameter, note 1	Minimum	Nominal	Maximum	Units
Operating Range, differential pressure		30.0		PSI
Output Span, note 5	86	90	94	mV
Offset Voltage @ zero differential pressure			±1	mV
Offset Temperature Shift (0°C-70°C), note 2			±1	mV
Linearity, hysteresis error, note 4		0.5	1.0	%fs
Span Shift (0°C-70°C), note 2			±2	%fs



Performance Characteristics for 100 PSI-D-CGRADE-MV

Parameter, note 1	Minimum	Nominal	Maximum	Units
Operating Range, differential pressure		100.0		PSI
Output Span, note 5	96	100	104	mV
Offset Voltage @ zero differential pressure			±1	mV
Offset Temperature Shift (0°C-70°C), note 2			±1	mV
Linearity, hysteresis error, note 4		0.5	1.0	%fs
Span Shift (0°C-70°C), note 2			±2	%fs

Performance Characteristics for 150 PSI-D-CGRADE-MV

Parameter, note 1	Minimum	Nominal	Maximum	Units
Operating Range, differential pressure		150.0		PSI
Output Span, note 5	86	90	95	mV
Offset Voltage @ zero differential pressure			±1	mV
Offset Temperature Shift (0°C-70°C), note 2			±1	mV
Linearity, hysteresis error, note 4		0.5	1.0	%fs
Span Shift (0°C-70°C), note 2			±2	%fs

Performance Characteristics for 15 PSI-A-CGRADE-MV

Parameter, note 1	Minimum	Nominal	Maximum	Units
Operating Range, absolute pressure		15.0		PSIA
Output Span, note 5	86	90.0	94	mV
Offset Voltage @ zero absolute pressure			±1	mV
Offset Temperature Shift (0°C-70°C), note 2			±1	mV
Linearity, hysteresis error, note 4		0.5	1.0	%fs
Span Shift (0°C-70°C), note 2			±2	%fs

Specification Notes

NOTE 1: ALL PARAMETERS ARE MEASURED AT 12.0 VOLT EXCITATION, FOR THE NOMINAL FULL SCALE PRESSURE AND ROOM TEMPERATURE UNLESS

OTHERWISE SPECIFIED. PRESSURE MEASUREMENTS ARE WITH POSITIVE PRESSURE APPLIED TO PORT B.

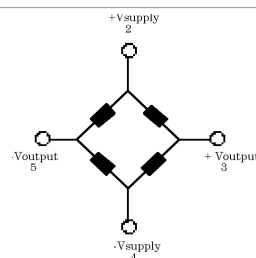
NOTE 2: SHIFT IS RELATIVE TO 25°C.

NOTE 3: SHIFT IS WITHIN THE FIRST HOUR OF EXCITATION APPLIED TO THE DEVICE.

NOTE 4: MEASURED AT ONE-HALF FULL SCALE RATED PRESSURE USING BEST STRAIGHT LINE CURVE FIT.

NOTE 5: THE VOLTAGE ADDED TO THE OFFSET VOLTAGE AT FULL SCALE PRESSURE.

Input Resistance 5.0 k ohm
Output Resistance 3.0 k ohm



Equivalent Circuit

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