

Pressure Sensor Ratings

Supply Voltage Vs, max	16 Vdc
Common-mode pressure	-10 to +10 psig
Lead Temperature, max (soldering 2-4 sec.)	270°C

Environmental Specifications

Temperature Ranges	
Compensated	0 to 50(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
0.5 INCH-D-MV	0 - 0.5" H2O	10mV	100 "H2O	200 "H2O
1 INCH-D-MV	0 - 1" H2O	10 mV	100 "H2O	200 "H2O
2 INCH-D-MV	0 - 2" H2O	10mv	100 "H2O	200 "H2O
5 INCH-D-MV	0 - 5" H2O	20 mV	200 "H2O	300 "H2O
10 INCH-D-MV	0 - 10" H2O	20 mV	200 "H2O	300 "H2O
20 INCH-D-MV	0 - 20" H2O	20 mV	200 "H2O	500 "H2O
30 INCH-D-MV	0 - 30" H2O	20 mV	200 "H2O	800 "H2O

Performance Characteristics for 0.5 INCH-D-MV

Parameter, note 1	Minimum	Nominal	Maximum	Units
Operating Range, differential pressure	--	0.5	--	"H2O
Output Span, @ 0.5"H2O, note 5	9.0	10.0	11.0	mV
Offset Voltage @ zero differential pressure	--	--	±500	uV
Offset Temperature Shift (0°C-50°C), note 2	--	--	±250	uV
Offset Warm-up Shift, note 3	--	--	±100	uV
Offset Position Sensitivity (1g)	--	--	±5.0	uV
Offset Long Term Drift (one year)	--	--	±200	uV
Linearity, hysteresis error, note 4	--	0.05	0.25	%fs
Full Scale Shift (0°C-50°C), note 2	--	--	±200	uV

Performance Characteristics for 1 INCH-D-MV

Parameter, note 1	Minimum	Nominal	Maximum	Units
Operating Range, differential pressure	--	1.0	--	"H2O
Output Span, @ 1"H2O, note 5	9.0	10.0	11.0	mV
Offset Voltage @ zero differential pressure	--	--	±500	uV
Offset Temperature Shift (0°C-50°C), note 2	--	--	±250	uV
Offset Warm-up Shift, note 3	--	--	±100	uV
Offset Position Sensitivity (1g)	--	--	±50	uV
Offset Long Term Drift (one year)	--	--	±200	uV
Linearity, hysteresis error, note 4	--	0.05	0.25	%fs
Full Scale Shift (0°C-50°C), note 2	--	--	±200	uV

Performance Characteristics for 20 INCH-D-MV

Parameter, note 1	Minimum	Nominal	Maximum	Units
Operating Range, differential pressure	--	20.0	--	"H ₂ O
Output Span, note 5	19.0	20.0	21.0	mV
Offset Voltage @ zero differential pressure	--	--	±500	uV
Offset Temperature Shift (0°C-70°C), note 2	--	--	±150	uV
Offset Warm-up Shift, note 3	--	--	±50	uV
Offset Position Sensitivity (1g)	--	--	±5	uV
Offset Long Term Drift (one year)	--	--	±100	uV
Linearity, hysteresis error, note 4	--	0.05	0.25	%fs
Full Scale Shift (0°C-70°C), note 2	--	--	±200	uV

Performance Characteristics for 30 INCH-D-MV

Parameter, note 1	Minimum	Nominal	Maximum	Units
Operating Range, differential pressure	--	30.0	--	"H ₂ O
Output Span, note 5	19.0	20.0	21.0	mV
Offset Voltage @ zero differential pressure	--	--	±500	uV
Offset Temperature Shift (0°C-70°C), note 2	--	--	±150	uV
Offset Warm-up Shift, note 3	--	--	±50	uV
Offset Position Sensitivity (1g)	--	--	±5	uV
Offset Long Term Drift (one year)	--	--	±100	uV
Linearity, hysteresis error, note 4	--	0.05	0.25	%fs
Full Scale Shift (0°C-70°C), note 2	--	--	±200	uV

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.

Pressure Response: for any pressure applied the response time to get to 90% of pressure applied is typically less than 100 useconds.

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