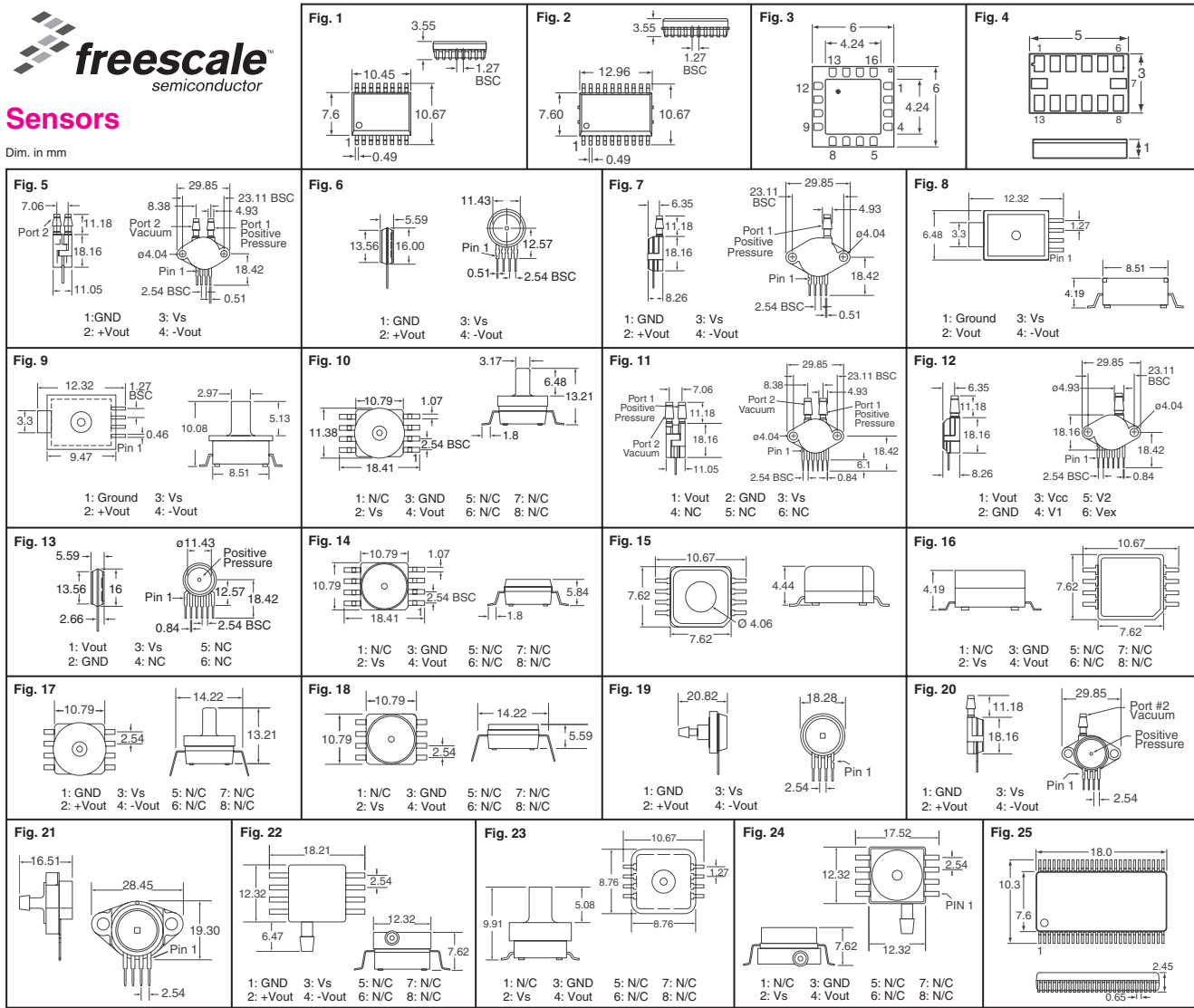


Dim. in mm



Accelerometers

Supply (typ.): 5.0VDC



Fig.	Supply (VDC)	Acceleration Range (g) Typ.	Sensitivity (mV/g/V)	Rolloff Frequency (Hz)	Sensing Axis	Zero g Output (V _{DD} = 5V)*	Package	Operating Temp. (°C)	Digi-Key Part No.	1	25	100
1	4.75 - 5.25	1.5	1200	50	X	2.5V	16-SOIC	-40 - 105	MMA2260EG-ND◆	11.51	10.56	9.12
	4.75 - 5.25	45	10	400	X	2.5V	16-SOIC	-40 - 105	MMA2201D-ND	15.34	11.60	10.70
	4.75 - 5.25	56.3	8	400	X	2.5V	16-SOIC	-40 - 125	MMA2202EG-ND◆	11.51	10.56	9.12
	4.75 - 5.25	112.5	4	400	X	2.5V	16-SOIC	-40 - 125	MMA2204D-ND	15.32	11.59	10.68
	4.75 - 5.25	112.5	4	400	X	2.5V	16-SOIC	-40 - 125	MMA2204EG-ND◆	11.51	10.56	9.64
	4.75 - 5.25	281	1.6	400	X	2.5V	16-SOIC	-40 - 125	MMA2300D-ND	15.34	11.60	10.70
	4.75 - 5.25	40	50	400	X	2.5V	16-SOIC	-40 - 105	MMA2201EG-ND◆	11.51	10.56	9.64
	4.75 - 5.25	40	50	400	X	2.5V	16-SOIC	-40 - 105	MMA2201EGR2CT-ND§	11.51	10.52	9.62
	4.75 - 5.25	40	50	400	X	2.5V	16-SOIC	-40 - 105	MMA2201EGR2TR-ND▲	8654.40/1,000		
	4.75 - 5.25	200	10	400	X	2.5V	16-SOIC	-40 - 125	MMA2301EG-ND◆	11.51	10.56	9.64
	4.75 - 5.25	200	10	400	X	2.5V	16-SOIC	-40 - 125	MMA2301EGR2-ND◆	8654.40/1,000		
	4.75 - 5.25	2.5	750	50	Z	2.5V	16-SOIC	-40 - 105	MMA1270D-ND	15.34	11.60	10.70
	4.75 - 5.25	2.5	750	50	Z	2.5V	16-SOIC	-40 - 105	MMA1270EG-ND◆	11.51	10.56	9.64
	4.75 - 5.25	2.5	750	50	Z	2.5V	16-SOIC	-40 - 105	MMA1270EGR2CT-ND§	11.51	9.62	9.02
	4.75 - 5.25	2.5	750	50	Z	2.5V	16-SOIC	-40 - 105	MMA1270EGR2TR-ND▲	8654.00/1,000		
	4.75 - 5.25	5	400	50	Z	2.5V	16-SOIC	-40 - 125	MMA1250D-ND	15.34	11.60	10.70
	4.75 - 5.25	100	20	400	Z	2.5V	16-SOIC	-40 - 125	MMA1210EG-ND◆	11.51	10.56	9.12
	4.75 - 5.25	100	20	400	Z	2.5V	16-SOIC	-40 - 125	MMA1210EGR2CT-ND§	11.51	10.52	9.62
	4.75 - 5.25	100	20	400	Z	2.5V	16-SOIC	-40 - 125	MMA1210EGR2TR-ND▲	8654.40/1,000		
	4.75 - 5.25	169	13	400	Z	2.5V	16-SOIC	-40 - 125	MMA1211D-ND	15.34	11.60	10.70
4.75 - 5.25	169	2,667	400	Z	2.5V	16-SOIC	-40 - 125	MMA1211EG-ND◆	11.51	10.56	9.64	
4.75 - 5.25	225	2	400	Z	2.5V	16-SOIC	-40 - 125	MMA1212D-ND	15.34	11.60	10.70	
4.75 - 5.25	225	2	400	Z	2.5V	16-SOIC	-40 - 125	MMA1212EG-ND◆	11.51	10.56	9.64	
4.75 - 5.25	50	40	400	Z	2.5V	16-SOIC	-40 - 125	MMA1213EG-ND◆	11.51	10.56	9.12	
4.75 - 5.25	50	40	400	Z	2.5V	16-SOIC	-40 - 125	MMA1213EGR2-ND◆	8654.40/1,000			
4.75 - 5.25	281	1.6	400	Z	2.5V	16-SOIC	-40 - 125	MMA1200EG-ND◆	11.51	10.56	9.64	
4.75 - 5.25	8	250	250	Z	2.5V	16-SOIC	-40 - 125	MMA1220EG-ND◆	11.51	10.56	9.12	

* The device can measure both +/- acceleration. With no input acceleration the output is at midsupply. For positive acceleration the output will increase above V_{DD}/2 and for negative acceleration the output will decrease below V_{DD}/2. ◆ RoHS Compliant § Cut Tape ▲ Tape and Reel † V_{DD} = 3.3V ‡ V_{DD} = 2.8V

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

More Product Available Online: www.digkey.com

Fig.	Supply (VDC)	Acceleration Range (g) Typ.	Sensitivity (mV/g/V)	Rolloff Frequency (Hz)	Sensing Axis	Zero g Output (V _{DD} = 5V)*	Package	Operating Temp. (°C)	Digi-Key Part No.	Price Each		
										1	25	100
1	4.75 - 5.25	8	250	250	Z	2.5V	16-SOIC	-40 - 125	MMA1220EGR2CT-ND	11.51	10.52	9.62
	4.75 - 5.25	8	250	250	Z	2.5V	16-SOIC	-40 - 125	MMA1220EGR2TR-ND	8654.40/1,000		
	4.75 - 5.25	5	400	50	Z	2.5V	16-SOIC	-40 - 125	MMA1250EG-ND	11.51	10.56	9.64
	4.75 - 5.25	5	400	50	Z	2.5V	16-SOIC	-40 - 125	MMA1250EGR2CT-ND	11.51	10.52	9.62
	4.75 - 5.25	5	400	50	Z	2.5V	16-SOIC	-40 - 125	MMA1250EGR2TR-ND	8654.40/1,000		
2	4.75 - 5.25	45	10	400	X-Y	2.5V	20-SOIC	-40 - 125	MMA3201D-ND	15.34	11.60	10.70
	4.75 - 5.25	40 (X) 40 (Y)	50 / 50	400	X-Y	2.5V	20-SOIC	-40 - 125	MMA3201EG-ND	11.51	10.56	9.64
	4.75 - 5.25	40 (X) 40 (Y)	50 / 50	400	X-Y	2.5V	20-SOIC	-40 - 125	MMA3201EGR2CT-ND	11.51	10.52	9.62
	4.75 - 5.25	40 (X) 40 (Y)	50 / 50	400	X-Y	2.5V	20-SOIC	-40 - 125	MMA3201EGR2TR-ND	8654.40/1,000		
	4.75 - 5.25	100 (X) / 50 (Y)	20 / 40	400	X-Y	2.5V	20-SOIC	-40 - 125	MMA3202EG-ND	11.51	10.56	9.64
	4.75 - 5.25	100 (X) / 50 (Y)	20 / 40	400	X-Y	2.5V	20-SOIC	-40 - 125	MMA3202EGR2CT-ND	11.51	10.52	9.62
	4.75 - 5.25	100 (X) / 50 (Y)	20 / 40	400	X-Y	2.5V	20-SOIC	-40 - 125	MMA3202EGR2TR-ND	8654.40/1,000		
	4.75 - 5.25	50 (X) / 20 (Y)	50 / 50	400	X-Y	2.5V	20-SOIC	-40 - 125	MMA3221EG-ND	11.51	10.56	9.64
	4.75 - 5.25	50 (X) / 20 (Y)	50 / 50	400	X-Y	2.5V	20-SOIC	-40 - 125	MMA3221EGR2CT-ND	11.51	9.62	9.02
	4.75 - 5.25	50 (X) / 20 (Y)	50 / 50	400	X-Y	2.5V	20-SOIC	-40 - 125	MMA3221EGR2TR-ND	8654.40/1,000		
3	2.7 - 3.6	1.5	800	300	X-Y	1.65V†	16-QFN	-20 - 85	MMA6261Q-ND	6.37	5.25	4.80
	2.7 - 3.6	1.5	800	150	X-Y	1.65V†	16-QFN	-20 - 85	MMA6262Q-ND	6.37	5.25	4.80
	2.7 - 3.6	1.5	800	900	X-Y	1.65V†	16-QFN	-20 - 85	MMA6263Q-ND	6.37	5.25	4.80
	2.2 - 3.6	1.5 / 2 / 4 / 6	800 / 600 / 300 / 200	350	X-Y	1.65V†	16-QFN	-20 - 85	MMA6270Q-ND	11.15	7.96	7.24
	2.2 - 3.6	1.5 / 2 / 4 / 6	800 / 600 / 300 / 200	350	X-Y	1.65V†	16-QFN	-20 - 85	MMA6270QR2TR-ND	3902.00/1,000		
	2.2 - 3.6	1.5 / 2 / 4 / 6	800 / 600 / 300 / 200	350	X-Y	1.65V†	16-QFN	-40 - 105	MMA6270T-ND	5.75	4.77	4.35
	2.2 - 3.6	2.5 / 3.3 / 6.7 / 10	480 / 360 / 180 / 120	350	X-Y	1.65V†	16-QFN	-40 - 105	MMA6271QT-ND	5.71	4.73	4.32
	2.2 - 3.6	2.5 / 3.3 / 6.7 / 10	480 / 360 / 180 / 120	350	X-Y	1.65V†	16-QFN	-40 - 105	MMA6271QR2CT-ND	5.71	4.85	4.04
	2.2 - 3.6	2.5 / 3.3 / 6.7 / 10	480 / 360 / 180 / 120	350	X-Y	1.65V†	16-QFN	-40 - 105	MMA6271QR2TR-ND	3874.00/1,000		
	2.2 - 3.6	1.5 / 2 / 4 / 6	800 / 600 / 300 / 200	350(X) / 150(Z)	X-Z	1.65V†	16-QFN	-20 - 85	MMA6280Q-ND	8.92	6.72	6.05
	2.2 - 3.6	1.5 / 2 / 4 / 6	800 / 600 / 300 / 200	350(X) / 150(Z)	X-Z	1.65V†	16-QFN	-40 - 105	MMA6280T-ND	5.77	4.78	4.37
	2.2 - 3.6	1.5 / 2 / 4 / 6	800 / 600 / 300 / 200	350(X) / 150(Z)	X-Z	1.65V†	16-QFN	-20 - 85	MMA6280QR2TR-ND	3939.00/1,000		
	2.2 - 3.6	1.5 / 2 / 4 / 6	800 / 600 / 300 / 200	350(XY) / 150(Z)	X-Y-Z	1.65V†	16-QFN	-20 - 85	MMA7260T-ND	3.18	2.64	2.41
	2.2 - 3.6	1.5 / 2 / 4 / 6	800 / 600 / 300 / 200	350(XY) / 150(Z)	X-Y-Z	1.65V†	16-QFN	-20 - 85	MMA7260QR2TR-ND	3917.00/1,000		
	2.2 - 3.6	2.5 / 3.3 / 6.7 / 10	480 / 360 / 180 / 120	350(XY) / 150(Z)	X-Y-Z	1.65V†	16-QFN	-40 - 105	MMA7261T-ND	5.73	4.75	3.73
2.2 - 3.6	2.5 / 3.3 / 6.7 / 10	480 / 360 / 180 / 120	350(XY) / 150(Z)	X-Y-Z	1.65V†	16-QFN	-20 - 85	MMA7261QR2TR-ND	3888.00/1,000			
4	2.2 - 3.6	4 / 12	308 / 77	400(XY) / 300(Z)	X-Y-Z	1.4V‡	14-LGA	-20 - 85	MMA7330LT-ND	5.95	4.56	3.45
	2.2 - 3.6	3 / 11	440 / 117.8	400(XY) / 300(Z)	X-Y-Z	1.65V†	14-LGA	-20 - 85	MMA7340LT-ND	5.95	4.19	3.45
	2.2 - 3.6	1.5 / 6	800 / 200	400(XY) / 300(Z)	X-Y-Z	1.65V†	14-LGA	-20 - 85	MMA7360LT-ND	6.10	4.29	3.54
Accelerometer Development Kits												
Accelerometer Evaluation Kit for MMA6270QE									KIT3109MMA6270QE-ND	39.57	—	—
Accelerometer Evaluation Kit for MMA6280QE									KIT3109MMA6280QE-ND	39.57	—	—
Accelerometer Evaluation Kit for MMA7260Q									KIT3109MMA7260QE-ND	39.57	—	—
Accelerometer Evaluation Kit for MMA7261QE									KIT3109MMA7261QE-ND	39.20	—	—
Reference Design Kits												
Triax Reference Design 3-Axis for MMA2260D ±1.5g with MMA1260D									RD1966MMA2260D-ND	75.87	61.44	59.45
Sensing Reference Design 3-Axis for MMA7260QT									RD3112MMA7260QE-ND	65.17	—	—
Board Reference 3-Axis Accelerometer									RD3152MMA7260Q-ND	147.85	—	—

* The device can measure both +/- acceleration. With no input acceleration the output is at midsupply. For positive acceleration the output will increase above V_{DD}/2 and for negative acceleration the output will decrease below V_{DD}/2. † RoHS Compliant ‡ Cut Tape Δ Tape and Reel † V_{DD} = 3.3V ‡ V_{DD} = 2.8V

Precision Temperature Compensated Pressure Sensors

Operating Temperature Range: -40°C - 125°C

Fig.	Pressure	Pressure Type	Output	Package	Supply (VDC)	Response Time*	Compensated Temp. Range (°C)	Digi-Key Part No.	Price Each		
									1	25	100
Unamplified Uncompensated Pressure Sensors											
5	0 - 1.45 psi	Differential	35mV	344C-01	3.0	1.0ms	—	MPX10DP-ND	10.95	9.17	8.24
6	0 - 1.45 psi	Differential	35mV	344-15	3.0	1.0 ms	—	MPX10D-ND	10.95	9.17	8.24
7	0 - 1.45 psi	Gauge	35mV	344B-01	3.0	1.0ms	—	MPX10GP-ND	10.95	9.17	8.24
17	0 - 1.45 psi	Gauge	35mV	482C-03	3.0	1.0ms	—	MPXV10GCT7U-ND	10.05	9.23	8.42
5	0 - 1.45 psi	Differential	55mV	344C-01	3.0	1.0ms	—	MPX12DP-ND	10.95	10.05	9.17
7	0 - 1.45 psi	Gauge	55mV	344B-01	3.0	1.0ms	—	MPX12GP-ND	10.95	9.17	7.64
5	0 - 7.25 psi	Differential	60mV	344C-01	3.0	1.0ms	—	MPX53DP-ND	10.95	10.05	9.17
Unamplified Temperature Compensated Pressure Sensors											
6	0 - 1.45 psi	Differential	25mV	344-15	10.0	1.0ms	0 - 85	MPX2010D-ND	11.22	9.40	7.83
5	0 - 1.45 psi	Differential	25mV	344C-01	10.0	1.0ms	0 - 85	MPX2010DP-ND	11.22	9.40	8.44
7	0 - 1.45 psi	Gauge	25mV	344B-01	10.0	1.0ms	0 - 85	MPX2010GP-ND	11.22	10.30	9.40
19	0 - 1.45 psi	Gauge	25mV	344E-01	10.0	1.0ms	0 - 85	MPX2010GS-ND	11.22	9.40	8.44
8	0 - 1.45 psi	Differential	25mV	MPAK	10.0	1.0ms	0 - 85	MPXM2010D-ND	9.55	7.91	7.22
9	0 - 1.45 psi	Gauge	25mV	Ported MPAK	10.0	1.0ms	0 - 85	MPXM2010GS-ND	9.55	7.91	7.22
22	0 - 1.45 psi	Gauge	25mV	1369-01	10.0	1.0ms	0 - 85	MPXV2010GP-ND	10.05	8.42	7.01
7	0 - 7.25 psi	Gauge	40mV	344B-01	10.0	1.0ms	0 - 85	MPX2050GP-ND	11.22	9.40	8.44
5	0 - 7.25 psi	Differential	40mV	344C-01	10.0	1.0ms	0 - 85	MPX2053DP-ND	12.50	10.47	9.41
7	0 - 7.25 psi	Gauge	40mV	344B-01	10.0	1.0ms	0 - 85	MPX2053GP-ND	11.22	9.40	8.44
8	0 - 7.25 psi	Differential	40mV	MPAK	10.0	1.0ms	0 - 85	MPXM2053D-ND	9.55	7.91	7.22
9	0 - 7.25 psi	Gauge	40mV	Ported MPAK	10.0	1.0ms	0 - 85	MPXM2053GS-ND	9.55	7.91	6.21
22	0 - 7.25 psi	Gauge	40mV	1369-01	10.0	1.0ms	0 - 85	MPXV2053GP-ND	10.05	8.42	7.01
6	0 - 14.5 psi	Absolute	40mV	344-15	10.0	1.0ms	0 - 85	MPX2100A-ND	11.22	9.40	8.44
7	0 - 14.5 psi	Absolute	40mV	344B-01	10.0	1.0ms	0 - 85	MPX2100AP-ND	11.22	9.40	8.44
6	0 - 14.5 psi	Differential	40mV	344-01	10.0	1.0ms	0 - 85	MPX2100D-ND	11.22	9.40	7.83
5	0 - 14.5 psi	Differential	40mV	344C-01	10.0	1.0ms	0 - 85	MPX2100DP-ND	11.22	9.40	8.44
7	0 - 14.5 psi	Gauge	40mV	344B-01	10.0	1.0ms	0 - 85	MPX2100GP-ND	11.22	9.40	7.83
6	0 - 14.5 psi	Absolute	40mV	344-15	10.0	1.0ms	0 - 85	MPX2102A-ND	11.22	9.40	7.83
7	0 - 14.5 psi	Absolute	40mV	344B-01	10.0	1.0ms	0 - 85	MPX2102AP-ND	11.22	9.40	8.44
21	0 - 14.5 psi	Absolute	40mV	344F-01	10.0	1.0ms	0 - 85	MPX2102ASX-ND	11.22	9.40	8.44
5	0 - 14.5 psi	Differential	40mV	344C-01	10.0	1.0ms	0 - 85	MPX2102DP-ND	11.22	9.40	8.44
7	0 - 14.5 psi	Gauge	40mV	344B-01	10.0	1.0ms	0 - 85	MPX2102GP-ND	12.75	9.65	8.90
20	0 - 14.5 psi	Gauge	40mV	344D-01	10.0	1.0ms	0 - 85	MPX2102GVP-ND	11.22	9.40	8.44
22	0 - 14.5 psi	Gauge	40mV	1369-01	10.0	1.0ms	0 - 85	MPXV2102GP-ND	10.05	8.42	7.01
8	0 - 14.5 psi	Absolute	40mV	MPAK	10.0	1.0ms	0 - 85	MPXM2102A-ND	9.55	6.52	6.21
9	0 - 14.5 psi	Absolute	40mV	Ported MPAK	10.0	1.0ms	0 - 85	MPXM2102AS-ND	9.55	7.91	6.21
8	0 - 14.5 psi	Differential	40mV	MPAK	10.0	1.0ms	0 - 85	MPXM2102D-ND	11.49	8.69	8.01
9	0 - 14.5 psi	Gauge	40mV	Ported MPAK	10.0	1.0ms	0 - 85	MPXM2102GS-ND	9.55	7.91	6.21
6	0 - 29 psi	Absolute	40mV	344-15	10.0	1.0ms	0 - 85	MPX2200A-ND	11.22	9.40	8.44
7	0 - 29 psi	Absolute	40mV	344B-01	10.0	1.0ms	0 - 85	MPX2200AP-ND	11.22	9.40	8.44
6	0 - 29 psi	Differential	40mV	344-15	10.0	1.0ms	0 - 85	MPX2200D-ND	11.22	9.40	8.44
5	0 - 29 psi	Differential	40mV	344C-01	10.0	1.0ms	0 - 85	MPX2200DP-ND	11.22	9.40	8.44
22	0 - 29 psi	Gauge	40mV	344B-01	10.0	1.0ms	0 - 85	MPX2200GP-ND	11.22	9.40	8.44
21	0 - 29 psi	Absolute	40mV	344F-01	10.0	1.0ms	0 - 85	MPX2202ASX-ND	11.22	9.40	8.44
6	0 - 29 psi	Differential	40mV	344-15	10.0	1.0ms	0 - 85				