



Pressure Sensor Description

The focal point of any sensor is the sensing element itself, and BAPI has gone to great lengths to produce one of the best sensors on the market today. The heart of every BAPI unit is a micro-machined, single-crystal silicon, pressure sensor. Each sensor is fabricated using the same integrated circuit technology used to make millions of cell phones, game machines and personal computers. To control and maintain the quality of these sensors, BAPI is involved in all phases of production from design to use.

Silicon does bring with it one undesired trait—thermal sensitivity. The traditional method of compensating for this thermal sensitivity is an external circuit with discreet resistors, some of which have their own temperature dependencies, introducing more error. BAPI uses a different, unique approach. We employ a custom compensation ASIC (Application Specific Integrated Circuit) that uses digital compensation while maintaining an analog signal path, producing a sensor that is precise and interchangeable. The result is a pressure sensor that offers the ultimate in high accuracy, while preserving the fast response and smooth output inherent to silicon sensors.

Because of the innovative sensor and digital temperature compensation circuit, we are able to produce a highly accurate and stable product. This accuracy is verified during final calibration at our factory using a pressure-controlled source accurate to 0.00015 inch of water and traceable to NIST standards.

Specifications

Output Ranges:

4 to 20 mA, 0 to 5 V or 0 to 10V

Power:

7 to 45 VDC (4-20 mA output)

7 to 45 VDC or 7 to 32 VAC (0-5 VDC output)

13 to 45 VDC or 13 to 32 VAC (0-10 VDC output)

Power Consumption:

4.9 mA max DC at 0-5 VDC or 0-10 VDC Output

0.12 VA max AC at 0-5 VDC or 0-10 VDC Output

20 mA max, DC only at 4-20 mA Output

Pressure Ranges

Inches W.C.

Low Range Unidirectional

0 to 0.10", 0 to 0.25", 0 to 0.50", 0 to 0.75", 0 to 1.00"

Low Range Bi-directional

±0.10", ±0.25", ±0.50", ±0.75", ±1.00"

Standard Range Unidirectional

0 to 1.00", 0 to 2.00", 0 to 2.50", 0 to 3.00", 0 to 5.00"

Standard Range Bi-directional

±1.00", ±2.00", ±2.50", ±3.00", ±5.00"

High Range Unidirectional

0 to 5", 0 to 10", 0 to 15", 0 to 25", 0 to 30"

Pascals

Low Range Unidirectional

0 to 30, 0 to 50, 0 to 100, 0 to 175, 0 to 250

Low Range Bi-directional

±30, ±50, ±100, ±175, ±250

Standard Range Unidirectional

0 to 250, 0 to 300, 0 to 500, 0 to 1,000, 0 to 1,250

Standard Range Bi-directional

±250, ±300, ±500, ±1,000, ±1,250

High Range Unidirectional

0 to 1,250, 0 to 2,500, 0 to 4,000, 0 to 6,000, 0 to 7,400

Accuracy at 72°F (22.2°C)

Low Range

±0.5% of W.C. ranges 0 to 0.1", 0 to 0.25", ±0.1" and ±0.25"

±0.5% of Pa ranges 0 to 30, 0 to 50, ±30 and ±50 Pa

±0.25% of range all other ranges

Standard and High Range

±0.25% of range

Temperature Limits

Storage: -40°F to 203°F (-40°C to 95°C)

Operational: 32°F to 140°F (0°C to 95°C)

Compensated: 50°F to 104°F (10°C to 40°C)

Operating RH Range:

0 to 95% non-condensing

Media:

Non-Ionic, Non-Corrosive, Clean, Dry Gasses





Pressure Sensor Output Table

H29

Rev. 10/16/12

BAPI Sensor Specifications

WC Ranges: 0 to 0.1", -0.1 to 0.1", 0 to 0.25", -0.25 to 0.25"

Pressure Range 0 to 0.10" W.C.

W.C.	Pasc.	4 to 20mA	0 to 5V	0 to 10V
0.000	0.00	4.00	0.00	0.00
0.004	1.00	4.64	0.20	0.40
0.008	1.99	5.28	0.40	0.80
0.012	2.99	5.92	0.60	1.20
0.016	3.99	6.56	0.80	1.60
0.020	4.98	7.20	1.00	2.00
0.024	5.98	7.84	1.20	2.40
0.028	6.97	8.48	1.40	2.80
0.032	7.97	9.12	1.60	3.20
0.036	8.97	9.76	1.80	3.60
0.040	9.96	10.40	2.00	4.00
0.044	10.96	11.04	2.20	4.40
0.048	11.96	11.68	2.40	4.80
0.052	12.95	12.32	2.60	5.20
0.056	13.95	12.96	2.80	5.60
0.060	14.95	13.60	3.00	6.00
0.064	15.94	14.24	3.20	6.40
0.068	16.94	14.88	3.40	6.80
0.072	17.93	15.52	3.60	7.20
0.076	18.93	16.16	3.80	7.60
0.080	19.93	16.80	4.00	8.00
0.084	20.92	17.44	4.20	8.40
0.086	21.42	17.76	4.30	8.60
0.088	21.92	18.08	4.40	8.80
0.092	22.92	18.72	4.60	9.20
0.096	23.91	19.36	4.80	9.60
0.100	24.91	20.00	5.00	10.00

Pressure Range 0 to 0.25" W.C.

W.C.	Pasc.	4 to 20mA	0 to 5V	0 to 10V
0.000	0.00	4.00	0.00	0.00
0.010	2.49	4.64	0.20	0.40
0.020	4.98	5.28	0.40	0.80
0.030	7.47	5.92	0.60	1.20
0.040	9.96	6.56	0.80	1.60
0.050	12.45	7.20	1.00	2.00
0.060	14.95	7.84	1.20	2.40
0.070	17.44	8.48	1.40	2.80
0.080	19.93	9.12	1.60	3.20
0.090	22.42	9.76	1.80	3.60
0.100	24.91	10.40	2.00	4.00
0.110	27.40	11.04	2.20	4.40
0.120	29.89	11.68	2.40	4.80
0.130	32.38	12.32	2.60	5.20
0.140	34.87	12.96	2.80	5.60
0.150	37.36	13.60	3.00	6.00
0.160	39.85	14.24	3.20	6.40
0.170	42.35	14.88	3.40	6.80
0.180	44.84	15.52	3.60	7.20
0.190	47.33	16.16	3.80	7.60
0.200	49.82	16.80	4.00	8.00
0.210	52.31	17.44	4.20	8.40
0.215	53.55	17.76	4.30	8.60
0.220	54.80	18.08	4.40	8.80
0.230	57.29	18.72	4.60	9.20
0.240	59.78	19.36	4.80	9.60
0.250	62.27	20.00	5.00	10.00

Pressure Range -0.10 to 0.10" W.C.

W.C.	Pasc.	4 to 20mA	0 to 5V	0 to 10V
-0.100	-24.91	4.00	0.00	0.00
-0.092	-22.92	4.64	0.20	0.40
-0.084	-20.92	5.28	0.40	0.80
-0.076	-18.93	5.92	0.60	1.20
-0.068	-16.94	6.56	0.80	1.60
-0.060	-14.95	7.20	1.00	2.00
-0.052	-12.95	7.84	1.20	2.40
-0.044	-10.96	8.48	1.40	2.80
-0.036	-8.97	9.12	1.60	3.20
-0.028	-6.97	9.76	1.80	3.60
-0.020	-4.98	10.40	2.00	4.00
-0.012	-2.99	11.04	2.20	4.40
-0.004	-1.00	11.68	2.40	4.80
0.000	0.00	12.00	2.50	5.00
0.004	1.00	12.32	2.60	5.20
0.012	2.99	12.96	2.80	5.60
0.020	4.98	13.60	3.00	6.00
0.028	6.97	14.24	3.20	6.40
0.036	8.97	14.88	3.40	6.80
0.044	10.96	15.52	3.60	7.20
0.052	12.95	16.16	3.80	7.60
0.060	14.95	16.80	4.00	8.00
0.068	16.94	17.44	4.20	8.40
0.076	18.93	18.08	4.40	8.80
0.084	20.92	18.72	4.60	9.20
0.092	22.92	19.36	4.80	9.60
0.100	24.91	20.00	5.00	10.00

Pressure Range -0.25 to 0.25" W.C.

W.C.	Pasc.	4 to 20mA	0 to 5V	0 to 10V
-0.250	-62.27	4.00	0.00	0.00
-0.230	-57.29	4.64	0.20	0.40
-0.210	-52.31	5.28	0.40	0.80
-0.190	-47.33	5.92	0.60	1.20
-0.170	-42.35	6.56	0.80	1.60
-0.150	-37.36	7.20	1.00	2.00
-0.130	-32.38	7.84	1.20	2.40
-0.110	-27.40	8.48	1.40	2.80
-0.090	-22.42	9.12	1.60	3.20
-0.070	-17.44	9.76	1.80	3.60
-0.050	-12.45	10.40	2.00	4.00
-0.030	-7.47	11.04	2.20	4.40
-0.010	-2.49	11.68	2.40	4.80
0.000	0.00	12.00	2.50	5.00
0.010	2.49	12.32	2.60	5.20
0.030	7.47	12.96	2.80	5.60
0.050	12.45	13.60	3.00	6.00
0.070	17.44	14.24	3.20	6.40
0.090	22.42	14.88	3.40	6.80
0.110	27.40	15.52	3.60	7.20
0.130	32.38	16.16	3.80	7.60
0.150	37.36	16.80	4.00	8.00
0.170	42.35	17.44	4.20	8.40
0.190	47.33	18.08	4.40	8.80
0.210	52.31	18.72	4.60	9.20
0.230	57.29	19.36	4.80	9.60
0.250	62.27	20.00	5.00	10.00





WC Ranges: 0 to 0.5", -0.5 to 0.5", 0 to 0.75", -0.75 to 0.75"

Pressure Range 0 to 0.50" W.C.				
W.C.	Pasc.	4 to 20mA	0 to 5V	0 to 10V
0.000	0.00	4.00	0.00	0.00
0.020	4.98	4.64	0.20	0.40
0.040	9.96	5.28	0.40	0.80
0.060	14.95	5.92	0.60	1.20
0.080	19.93	6.56	0.80	1.60
0.100	24.91	7.20	1.00	2.00
0.120	29.89	7.84	1.20	2.40
0.140	34.87	8.48	1.40	2.80
0.160	39.85	9.12	1.60	3.20
0.180	44.84	9.76	1.80	3.60
0.200	49.82	10.40	2.00	4.00
0.220	54.80	11.04	2.20	4.40
0.240	59.78	11.68	2.40	4.80
0.260	64.76	12.32	2.60	5.20
0.280	69.74	12.96	2.80	5.60
0.300	74.73	13.60	3.00	6.00
0.320	79.71	14.24	3.20	6.40
0.340	84.69	14.88	3.40	6.80
0.360	89.67	15.52	3.60	7.20
0.380	94.65	16.16	3.80	7.60
0.400	99.64	16.80	4.00	8.00
0.420	104.62	17.44	4.20	8.40
0.430	107.11	17.76	4.30	8.60
0.440	109.60	18.08	4.40	8.80
0.460	114.58	18.72	4.60	9.20
0.480	119.56	19.36	4.80	9.60
0.500	124.54	20.00	5.00	10.00

Pressure Range 0 to 0.75" W.C.				
W.C.	Pasc.	4 to 20mA	0 to 5V	0 to 10V
0.000	0.00	4.00	0.00	0.00
0.030	7.47	4.64	0.20	0.40
0.060	14.95	5.28	0.40	0.80
0.090	22.42	5.92	0.60	1.20
0.120	29.89	6.56	0.80	1.60
0.150	37.36	7.20	1.00	2.00
0.180	44.84	7.84	1.20	2.40
0.210	52.31	8.48	1.40	2.80
0.240	59.78	9.12	1.60	3.20
0.270	67.25	9.76	1.80	3.60
0.300	74.73	10.40	2.00	4.00
0.330	82.20	11.04	2.20	4.40
0.360	89.67	11.68	2.40	4.80
0.390	97.14	12.32	2.60	5.20
0.420	104.62	12.96	2.80	5.60
0.450	112.09	13.60	3.00	6.00
0.480	119.56	14.24	3.20	6.40
0.510	127.04	14.88	3.40	6.80
0.540	134.51	15.52	3.60	7.20
0.570	141.98	16.16	3.80	7.60
0.600	149.45	16.80	4.00	8.00
0.630	156.93	17.44	4.20	8.40
0.645	160.66	17.76	4.30	8.60
0.660	164.40	18.08	4.40	8.80
0.690	171.87	18.72	4.60	9.20
0.720	179.34	19.36	4.80	9.60
0.750	186.82	20.00	5.00	10.00

Pressure Range -0.50 to 0.50" W.C.				
W.C.	Pasc.	4 to 20mA	0 to 5V	0 to 10V
-0.500	-124.54	4.00	0.00	0.00
-0.460	-114.58	4.64	0.20	0.40
-0.420	-104.62	5.28	0.40	0.80
-0.380	-94.65	5.92	0.60	1.20
-0.340	-84.69	6.56	0.80	1.60
-0.300	-74.73	7.20	1.00	2.00
-0.260	-64.76	7.84	1.20	2.40
-0.220	-54.80	8.48	1.40	2.80
-0.180	-44.84	9.12	1.60	3.20
-0.140	-34.87	9.76	1.80	3.60
-0.100	-24.91	10.40	2.00	4.00
-0.060	-14.95	11.04	2.20	4.40
-0.020	-4.98	11.68	2.40	4.80
0.000	0.00	12.00	2.50	5.00
0.020	4.98	12.32	2.60	5.20
0.060	14.95	12.96	2.80	5.60
0.100	24.91	13.60	3.00	6.00
0.140	34.87	14.24	3.20	6.40
0.180	44.84	14.88	3.40	6.80
0.220	54.80	15.52	3.60	7.20
0.260	64.76	16.16	3.80	7.60
0.300	74.73	16.80	4.00	8.00
0.340	84.69	17.44	4.20	8.40
0.380	94.65	18.08	4.40	8.80
0.420	104.62	18.72	4.60	9.20
0.460	114.58	19.36	4.80	9.60
0.500	124.54	20.00	5.00	10.00

Pressure Range -0.75 to 0.75" W.C.				
W.C.	Pasc.	4 to 20mA	0 to 5V	0 to 10V
-0.750	-186.82	4.00	0.00	0.00
-0.690	-171.87	4.64	0.20	0.40
-0.630	-156.93	5.28	0.40	0.80
-0.570	-141.98	5.92	0.60	1.20
-0.510	-127.04	6.56	0.80	1.60
-0.450	-112.09	7.20	1.00	2.00
-0.390	-97.14	7.84	1.20	2.40
-0.330	-82.20	8.48	1.40	2.80
-0.270	-67.25	9.12	1.60	3.20
-0.210	-52.31	9.76	1.80	3.60
-0.150	-37.36	10.40	2.00	4.00
-0.090	-22.42	11.04	2.20	4.40
-0.030	-7.47	11.68	2.40	4.80
0.000	0.00	12.00	2.50	5.00
0.030	7.47	12.32	2.60	5.20
0.090	22.42	12.96	2.80	5.60
0.150	37.36	13.60	3.00	6.00
0.210	52.31	14.24	3.20	6.40
0.270	67.25	14.88	3.40	6.80
0.330	82.20	15.52	3.60	7.20
0.390	97.14	16.16	3.80	7.60
0.450	112.09	16.80	4.00	8.00
0.510	127.04	17.44	4.20	8.40
0.570	141.98	18.08	4.40	8.80
0.630	156.93	18.72	4.60	9.20
0.690	171.87	19.36	4.80	9.60
0.750	186.82	20.00	5.00	10.00



WC Ranges: 0 to 1.0", -1.0 to 1.0", 0 to 2.0", -2.0 to 2.0"

Pressure Range 0 to 1.00" W.C.				
W.C.	Pasc.	4 to 20mA	0 to 5V	0 to 10V
0.000	0.00	4.00	0.00	0.00
0.040	9.96	4.64	0.20	0.40
0.080	19.93	5.28	0.40	0.80
0.120	29.89	5.92	0.60	1.20
0.160	39.85	6.56	0.80	1.60
0.200	49.82	7.20	1.00	2.00
0.240	59.78	7.84	1.20	2.40
0.280	69.74	8.48	1.40	2.80
0.320	79.71	9.12	1.60	3.20
0.360	89.67	9.76	1.80	3.60
0.400	99.64	10.40	2.00	4.00
0.440	109.60	11.04	2.20	4.40
0.480	119.56	11.68	2.40	4.80
0.520	129.53	12.32	2.60	5.20
0.560	139.49	12.96	2.80	5.60
0.600	149.45	13.60	3.00	6.00
0.640	159.42	14.24	3.20	6.40
0.680	169.38	14.88	3.40	6.80
0.720	179.34	15.52	3.60	7.20
0.760	189.31	16.16	3.80	7.60
0.800	199.27	16.80	4.00	8.00
0.840	209.23	17.44	4.20	8.40
0.860	214.22	17.76	4.30	8.60
0.880	219.20	18.08	4.40	8.80
0.920	229.16	18.72	4.60	9.20
0.960	239.13	19.36	4.80	9.60
1.000	249.09	20.00	5.00	10.00

Pressure Range 0 to 2.00" W.C.				
W.C.	Pasc.	4 to 20mA	0 to 5V	0 to 10V
0.000	0.00	4.00	0.00	0.00
0.080	19.93	4.64	0.20	0.40
0.160	39.85	5.28	0.40	0.80
0.240	59.78	5.92	0.60	1.20
0.320	79.71	6.56	0.80	1.60
0.400	99.64	7.20	1.00	2.00
0.480	119.56	7.84	1.20	2.40
0.560	139.49	8.48	1.40	2.80
0.640	159.42	9.12	1.60	3.20
0.720	179.34	9.76	1.80	3.60
0.800	199.27	10.40	2.00	4.00
0.880	219.20	11.04	2.20	4.40
0.960	239.13	11.68	2.40	4.80
1.040	259.05	12.32	2.60	5.20
1.120	278.98	12.96	2.80	5.60
1.200	298.91	13.60	3.00	6.00
1.280	318.83	14.24	3.20	6.40
1.360	338.76	14.88	3.40	6.80
1.440	358.69	15.52	3.60	7.20
1.520	378.62	16.16	3.80	7.60
1.600	398.54	16.80	4.00	8.00
1.680	418.47	17.44	4.20	8.40
1.720	428.43	17.76	4.30	8.60
1.760	438.40	18.08	4.40	8.80
1.840	458.32	18.72	4.60	9.20
1.920	478.25	19.36	4.80	9.60
2.000	498.18	20.00	5.00	10.00

Pressure Range -1.00 to 1.00" W.C.				
W.C.	Pasc.	4 to 20mA	0 to 5V	0 to 10V
-1.000	-249.09	4.00	0.00	0.00
-0.920	-229.16	4.64	0.20	0.40
-0.840	-209.23	5.28	0.40	0.80
-0.760	-189.31	5.92	0.60	1.20
-0.680	-169.38	6.56	0.80	1.60
-0.600	-149.45	7.20	1.00	2.00
-0.520	-129.53	7.84	1.20	2.40
-0.440	-109.60	8.48	1.40	2.80
-0.360	-89.67	9.12	1.60	3.20
-0.280	-69.74	9.76	1.80	3.60
-0.200	-49.82	10.40	2.00	4.00
-0.120	-29.89	11.04	2.20	4.40
-0.040	-9.96	11.68	2.40	4.80
0.000	0.00	12.00	2.50	5.00
0.040	9.96	12.32	2.60	5.20
0.120	29.89	12.96	2.80	5.60
0.200	49.82	13.60	3.00	6.00
0.280	69.74	14.24	3.20	6.40
0.360	89.67	14.88	3.40	6.80
0.440	109.60	15.52	3.60	7.20
0.520	129.53	16.16	3.80	7.60
0.600	149.45	16.80	4.00	8.00
0.680	169.38	17.44	4.20	8.40
0.760	189.31	18.08	4.40	8.80
0.840	209.23	18.72	4.60	9.20
0.920	229.16	19.36	4.80	9.60
1.000	249.09	20.00	5.00	10.00

Pressure Range -2.00 to 2.00" W.C.				
W.C.	Pasc.	4 to 20mA	0 to 5V	0 to 10V
-2.000	-498.18	4.00	0.00	0.00
-1.840	-458.32	4.64	0.20	0.40
-1.680	-418.47	5.28	0.40	0.80
-1.520	-378.62	5.92	0.60	1.20
-1.360	-338.76	6.56	0.80	1.60
-1.200	-298.91	7.20	1.00	2.00
-1.040	-259.05	7.84	1.20	2.40
-0.880	-219.20	8.48	1.40	2.80
-0.720	-179.34	9.12	1.60	3.20
-0.560	-139.49	9.76	1.80	3.60
-0.400	-99.64	10.40	2.00	4.00
-0.240	-59.78	11.04	2.20	4.40
-0.080	-19.93	11.68	2.40	4.80
0.000	0.00	12.00	2.50	5.00
0.080	19.93	12.32	2.60	5.20
0.240	59.78	12.96	2.80	5.60
0.400	99.64	13.60	3.00	6.00
0.560	139.49	14.24	3.20	6.40
0.720	179.34	14.88	3.40	6.80
0.880	219.20	15.52	3.60	7.20
1.040	259.05	16.16	3.80	7.60
1.200	298.91	16.80	4.00	8.00
1.360	338.76	17.44	4.20	8.40
1.520	378.62	18.08	4.40	8.80
1.680	418.47	18.72	4.60	9.20
1.840	458.32	19.36	4.80	9.60
2.000	498.18	20.00	5.00	10.00





WC Ranges: 0 to 2.5", -2.5 to 2.5", 0 to 3.0", -3.0 to 3.0"

Pressure Range 0 to 2.50" W.C.				
W.C.	Pasc.	4 to 20mA	0 to 5V	0 to 10V
0.000	0.00	4.00	0.00	0.00
0.100	24.91	4.64	0.20	0.40
0.200	49.82	5.28	0.40	0.80
0.300	74.73	5.92	0.60	1.20
0.400	99.64	6.56	0.80	1.60
0.500	124.54	7.20	1.00	2.00
0.600	149.45	7.84	1.20	2.40
0.700	174.36	8.48	1.40	2.80
0.800	199.27	9.12	1.60	3.20
0.900	224.18	9.76	1.80	3.60
1.000	249.09	10.40	2.00	4.00
1.100	274.00	11.04	2.20	4.40
1.200	298.91	11.68	2.40	4.80
1.300	323.82	12.32	2.60	5.20
1.400	348.72	12.96	2.80	5.60
1.500	373.63	13.60	3.00	6.00
1.600	398.54	14.24	3.20	6.40
1.700	423.45	14.88	3.40	6.80
1.800	448.36	15.52	3.60	7.20
1.900	473.27	16.16	3.80	7.60
2.000	498.18	16.80	4.00	8.00
2.100	523.09	17.44	4.20	8.40
2.150	535.54	17.76	4.30	8.60
2.200	548.00	18.08	4.40	8.80
2.300	572.90	18.72	4.60	9.20
2.400	597.81	19.36	4.80	9.60
2.500	622.72	20.00	5.00	10.00

Pressure Range 0 to 3.00" W.C.				
W.C.	Pasc.	4 to 20mA	0 to 5V	0 to 10V
0.000	0.00	4.00	0.00	0.00
0.120	29.89	4.64	0.20	0.40
0.240	59.78	5.28	0.40	0.80
0.360	89.67	5.92	0.60	1.20
0.480	119.56	6.56	0.80	1.60
0.600	149.45	7.20	1.00	2.00
0.720	179.34	7.84	1.20	2.40
0.840	209.23	8.48	1.40	2.80
0.960	239.13	9.12	1.60	3.20
1.080	269.02	9.76	1.80	3.60
1.200	298.91	10.40	2.00	4.00
1.320	328.80	11.04	2.20	4.40
1.440	358.69	11.68	2.40	4.80
1.560	388.58	12.32	2.60	5.20
1.680	418.47	12.96	2.80	5.60
1.800	448.36	13.60	3.00	6.00
1.920	478.25	14.24	3.20	6.40
2.040	508.14	14.88	3.40	6.80
2.160	538.03	15.52	3.60	7.20
2.280	567.92	16.16	3.80	7.60
2.400	597.81	16.80	4.00	8.00
2.520	627.70	17.44	4.20	8.40
2.580	642.65	17.76	4.30	8.60
2.640	657.59	18.08	4.40	8.80
2.760	687.49	18.72	4.60	9.20
2.880	717.38	19.36	4.80	9.60
3.000	747.27	20.00	5.00	10.00

Pressure Range -2.50 to 2.50" W.C.				
W.C.	Pasc.	4 to 20mA	0 to 5V	0 to 10V
-2.500	-622.72	4.00	0.00	0.00
-2.300	-572.90	4.64	0.20	0.40
-2.100	-523.09	5.28	0.40	0.80
-1.900	-473.27	5.92	0.60	1.20
-1.700	-423.45	6.56	0.80	1.60
-1.500	-373.63	7.20	1.00	2.00
-1.300	-323.82	7.84	1.20	2.40
-1.100	-274.00	8.48	1.40	2.80
-0.900	-224.18	9.12	1.60	3.20
-0.700	-174.36	9.76	1.80	3.60
-0.500	-124.54	10.40	2.00	4.00
-0.300	-74.73	11.04	2.20	4.40
-0.100	-24.91	11.68	2.40	4.80
0.000	0.00	12.00	2.50	5.00
0.100	24.91	12.32	2.60	5.20
0.300	74.73	12.96	2.80	5.60
0.500	124.54	13.60	3.00	6.00
0.700	174.36	14.24	3.20	6.40
0.900	224.18	14.88	3.40	6.80
1.100	274.00	15.52	3.60	7.20
1.300	323.82	16.16	3.80	7.60
1.500	373.63	16.80	4.00	8.00
1.700	423.45	17.44	4.20	8.40
1.900	473.27	18.08	4.40	8.80
2.100	523.09	18.72	4.60	9.20
2.300	572.90	19.36	4.80	9.60
2.500	622.72	20.00	5.00	10.00

Pressure Range -3.00 to 3.00" W.C.				
W.C.	Pasc.	4 to 20mA	0 to 5V	0 to 10V
-3.000	-747.27	4.00	0.00	0.00
-2.760	-687.49	4.64	0.20	0.40
-2.520	-627.70	5.28	0.40	0.80
-2.280	-567.92	5.92	0.60	1.20
-2.040	-508.14	6.56	0.80	1.60
-1.800	-448.36	7.20	1.00	2.00
-1.560	-388.58	7.84	1.20	2.40
-1.320	-328.80	8.48	1.40	2.80
-1.080	-269.02	9.12	1.60	3.20
-0.840	-209.23	9.76	1.80	3.60
-0.600	-149.45	10.40	2.00	4.00
-0.360	-89.67	11.04	2.20	4.40
-0.120	-29.89	11.68	2.40	4.80
0.000	0.00	12.00	2.50	5.00
0.120	29.89	12.32	2.60	5.20
0.360	89.67	12.96	2.80	5.60
0.600	149.45	13.60	3.00	6.00
0.840	209.23	14.24	3.20	6.40
1.080	269.02	14.88	3.40	6.80
1.320	328.80	15.52	3.60	7.20
1.560	388.58	16.16	3.80	7.60
1.800	448.36	16.80	4.00	8.00
2.040	508.14	17.44	4.20	8.40
2.280	567.92	18.08	4.40	8.80
2.520	627.70	18.72	4.60	9.20
2.760	687.49	19.36	4.80	9.60
3.000	747.27	20.00	5.00	10.00



Rev. 10/16/12

Pressure Sensor Output Table

BAPI Sensor Specifications

H33

WC Ranges: 0 to 5.0", -5.0 to 5.0"

Pressure Range 0 to 5.00" W.C.

W.C.	Pasc.	4 to 20mA	0 to 5V	0 to 10V
0.000	0.00	4.00	0.00	0.00
0.200	49.82	4.64	0.20	0.40
0.400	99.64	5.28	0.40	0.80
0.600	149.45	5.92	0.60	1.20
0.800	199.27	6.56	0.80	1.60
1.000	249.09	7.20	1.00	2.00
1.200	298.91	7.84	1.20	2.40
1.400	348.72	8.48	1.40	2.80
1.600	398.54	9.12	1.60	3.20
1.800	448.36	9.76	1.80	3.60
2.000	498.18	10.40	2.00	4.00
2.200	548.00	11.04	2.20	4.40
2.400	597.81	11.68	2.40	4.80
2.600	647.63	12.32	2.60	5.20
2.800	697.45	12.96	2.80	5.60
3.000	747.27	13.60	3.00	6.00
3.200	797.08	14.24	3.20	6.40
3.400	846.90	14.88	3.40	6.80
3.600	896.72	15.52	3.60	7.20
3.800	946.54	16.16	3.80	7.60
4.000	996.36	16.80	4.00	8.00
4.200	1046.17	17.44	4.20	8.40
4.300	1071.08	17.76	4.30	8.60
4.400	1095.99	18.08	4.40	8.80
4.600	1145.81	18.72	4.60	9.20
4.800	1195.63	19.36	4.80	9.60
5.000	1245.44	20.00	5.00	10.00

Pressure Range -5.00 to 5.00" W.C.

W.C.	Pasc.	4 to 20mA	0 to 5V	0 to 10V
-5.000	-1245.44	4.00	0.00	0.00
-4.600	-1145.81	4.64	0.20	0.40
-4.200	-1046.17	5.28	0.40	0.80
-3.800	-946.54	5.92	0.60	1.20
-3.400	-846.90	6.56	0.80	1.60
-3.000	-747.27	7.20	1.00	2.00
-2.600	-647.63	7.84	1.20	2.40
-2.200	-548.00	8.48	1.40	2.80
-1.800	-448.36	9.12	1.60	3.20
-1.400	-348.72	9.76	1.80	3.60
-1.000	-249.09	10.40	2.00	4.00
-0.600	-149.45	11.04	2.20	4.40
-0.200	-49.82	11.68	2.40	4.80
0.000	0.00	12.00	2.50	5.00
0.200	49.82	12.32	2.60	5.20
0.600	149.45	12.96	2.80	5.60
1.000	249.09	13.60	3.00	6.00
1.400	348.72	14.24	3.20	6.40
1.800	448.36	14.88	3.40	6.80
2.200	548.00	15.52	3.60	7.20
2.600	647.63	16.16	3.80	7.60
3.000	747.27	16.80	4.00	8.00
3.400	846.90	17.44	4.20	8.40
3.800	946.54	18.08	4.40	8.80
4.200	1046.17	18.72	4.60	9.20
4.600	1145.81	19.36	4.80	9.60
5.000	1245.44	20.00	5.00	10.00





WC Ranges: 0 to 10", 0 to 15", 0 to 25", 0 to 30"

Pressure Range 0 to 10" W.C.				
W.C.	Pasc.	4 to 20mA	0 to 5V	0 to 10V
0.000	0.00	4.00	0.00	0.00
0.400	99.64	4.64	0.20	0.40
0.800	199.27	5.28	0.40	0.80
1.200	298.91	5.92	0.60	1.20
1.600	398.54	6.56	0.80	1.60
2.000	498.18	7.20	1.00	2.00
2.400	597.81	7.84	1.20	2.40
2.800	697.45	8.48	1.40	2.80
3.200	797.08	9.12	1.60	3.20
3.600	896.72	9.76	1.80	3.60
4.000	996.36	10.40	2.00	4.00
4.400	1095.99	11.04	2.20	4.40
4.800	1195.63	11.68	2.40	4.80
5.200	1295.26	12.32	2.60	5.20
5.600	1394.90	12.96	2.80	5.60
6.000	1494.53	13.60	3.00	6.00
6.400	1594.17	14.24	3.20	6.40
6.800	1693.80	14.88	3.40	6.80
7.200	1793.44	15.52	3.60	7.20
7.600	1893.08	16.16	3.80	7.60
8.000	1992.71	16.80	4.00	8.00
8.400	2092.35	17.44	4.20	8.40
8.600	2142.16	17.76	4.30	8.60
8.800	2191.98	18.08	4.40	8.80
9.200	2291.62	18.72	4.60	9.20
9.600	2391.25	19.36	4.80	9.60
10.000	2490.89	20.00	5.00	10.00

Pressure Range 0 to 25" W.C.				
W.C.	Pasc.	4 to 20mA	0 to 5V	0 to 10V
0.000	0.00	4.00	0.00	0.00
1.000	249.09	4.64	0.20	0.40
2.000	498.18	5.28	0.40	0.80
3.000	747.27	5.92	0.60	1.20
4.000	996.36	6.56	0.80	1.60
5.000	1245.44	7.20	1.00	2.00
6.000	1494.53	7.84	1.20	2.40
7.000	1743.62	8.48	1.40	2.80
8.000	1992.71	9.12	1.60	3.20
9.000	2241.80	9.76	1.80	3.60
10.000	2490.89	10.40	2.00	4.00
11.000	2739.98	11.04	2.20	4.40
12.000	2989.07	11.68	2.40	4.80
13.000	3238.16	12.32	2.60	5.20
14.000	3487.24	12.96	2.80	5.60
15.000	3736.33	13.60	3.00	6.00
16.000	3985.42	14.24	3.20	6.40
17.000	4234.51	14.88	3.40	6.80
18.000	4483.60	15.52	3.60	7.20
19.000	4732.69	16.16	3.80	7.60
20.000	4981.78	16.80	4.00	8.00
21.000	5230.87	17.44	4.20	8.40
21.500	5355.41	17.76	4.30	8.60
22.000	5479.96	18.08	4.40	8.80
23.000	5729.04	18.72	4.60	9.20
24.000	5978.13	19.36	4.80	9.60
25.000	6227.22	20.00	5.00	10.00

Pressure Range 0 to 15" W.C.				
W.C.	Pasc.	4 to 20mA	0 to 5V	0 to 10V
0.000	0.00	4.00	0.00	0.00
0.600	149.45	4.64	0.20	0.40
1.200	298.91	5.28	0.40	0.80
1.800	448.36	5.92	0.60	1.20
2.400	597.81	6.56	0.80	1.60
3.000	747.27	7.20	1.00	2.00
3.600	896.72	7.84	1.20	2.40
4.200	1046.17	8.48	1.40	2.80
4.800	1195.63	9.12	1.60	3.20
5.400	1345.08	9.76	1.80	3.60
6.000	1494.53	10.40	2.00	4.00
6.600	1643.99	11.04	2.20	4.40
7.200	1793.44	11.68	2.40	4.80
7.800	1942.89	12.32	2.60	5.20
8.400	2092.35	12.96	2.80	5.60
9.000	2241.80	13.60	3.00	6.00
9.600	2391.25	14.24	3.20	6.40
10.200	2540.71	14.88	3.40	6.80
10.800	2690.16	15.52	3.60	7.20
11.400	2839.61	16.16	3.80	7.60
12.000	2989.07	16.80	4.00	8.00
12.600	3138.52	17.44	4.20	8.40
12.900	3213.25	17.76	4.30	8.60
13.200	3287.97	18.08	4.40	8.80
13.800	3437.43	18.72	4.60	9.20
14.400	3586.88	19.36	4.80	9.60
15.000	3736.33	20.00	5.00	10.00

Pressure Range 0 to 30" W.C.				
W.C.	Pasc.	4 to 20mA	0 to 5V	0 to 10V
0.000	0.00	4.00	0.00	0.00
1.200	298.91	4.64	0.20	0.40
2.400	597.81	5.28	0.40	0.80
3.600	896.72	5.92	0.60	1.20
4.800	1195.63	6.56	0.80	1.60
6.000	1494.53	7.20	1.00	2.00
7.200	1793.44	7.84	1.20	2.40
8.400	2092.35	8.48	1.40	2.80
9.600	2391.25	9.12	1.60	3.20
10.800	2690.16	9.76	1.80	3.60
12.000	2989.07	10.40	2.00	4.00
13.200	3287.97	11.04	2.20	4.40
14.400	3586.88	11.68	2.40	4.80
15.600	3885.79	12.32	2.60	5.20
16.800	4184.69	12.96	2.80	5.60
18.000	4483.60	13.60	3.00	6.00
19.200	4782.51	14.24	3.20	6.40
20.400	5081.41	14.88	3.40	6.80
21.600	5380.32	15.52	3.60	7.20
22.800	5679.23	16.16	3.80	7.60
24.000	5978.13	16.80	4.00	8.00
25.200	6277.04	17.44	4.20	8.40
25.800	6426.49	17.76	4.30	8.60
26.400	6575.95	18.08	4.40	8.80
27.600	6874.85	18.72	4.60	9.20
28.800	7173.76	19.36	4.80	9.60
30.000	7472.67	20.00	5.00	10.00