

# Conversion Tables

## Pressure Conversion Table

		MULTIPLY NUMBER OF								
by		lb/in <sup>2</sup> (psi)	bars	in of H <sub>2</sub> O (4°C)	in of Hg (0 °C)	mm of Hg torr	Pascals	Atmos	Dynes/cm <sup>2</sup>	Kg/meter <sup>2</sup>
TO OBTAIN	lb/in <sup>2</sup> (psi)	1	14.504	3.6127 x 10 <sup>2</sup>	0.4912	1.934 x 10 <sup>2</sup>	1.4503 x 10 <sup>4</sup>	14.6956	1.4504 x 10 <sup>5</sup>	1.423 x 10 <sup>3</sup>
	bars	6.8948 x 10 <sup>-2</sup>	1	2.491 x 10 <sup>3</sup>	3.3864 x 10 <sup>2</sup>	1.333 x 10 <sup>3</sup>	10 <sup>-5</sup>	1.01325	10 <sup>-6</sup>	9.0867 x 10 <sup>-5</sup>
	in of H <sub>2</sub> O (4°C)	27.68	401.48	1	13.60	0.5354	4.014 x 10 <sup>-3</sup>	406.8	4.0148 x 10 <sup>-4</sup>	3.937 x 10 <sup>-2</sup>
	in of Hg (0 °C)	2.036	29.53	7.355 x 10 <sup>-2</sup>	1	3.937 x 10 <sup>-2</sup>	2.953 x 10 <sup>-4</sup>	29.9213	2.953 x 10 <sup>-5</sup>	2.896 x 10 <sup>-3</sup>
	mm of Hg torr	51.715	750.06	1.868	25.4	1	7.502 x 10 <sup>-3</sup>	760	7.5006 x 10 <sup>-4</sup>	7.3558 x 10 <sup>-2</sup>
	Pascals	6.8948 x 10 <sup>3</sup>	1 x 10 <sup>5</sup>	2.491 x 10 <sup>2</sup>	3.386 x 10 <sup>3</sup>	1.333 x 10 <sup>2</sup>	1	1.01325 x 10 <sup>5</sup>	10 <sup>-1</sup>	9.8067
	Atmos	0.068046	9.86923 x 10 <sup>-1</sup>	2.458 x 10 <sup>-3</sup>	3.34207 x 10 <sup>-2</sup>	1.316 x 10 <sup>-3</sup>	9.869 x 10 <sup>-6</sup>	1	9.86923 x 10 <sup>-7</sup>	9.678 x 10 <sup>-3</sup>
	Dynes/cm <sup>2</sup>	6.8948 x 10 <sup>4</sup>	10 <sup>6</sup>	2.491 x 10 <sup>3</sup>	3.386 x 10 <sup>4</sup>	1.333 x 10 <sup>3</sup>	10	1.01325 x 10 <sup>6</sup>	1	98.067
	Kg/meter <sup>2</sup>	7.0306 x 10 <sup>2</sup>	1.0197 x 10 <sup>4</sup>	25.40	345.3	13.59	1.019 x 10 <sup>-1</sup>	10.33227 x 10 <sup>4</sup>	1.0197 x 10 <sup>-2</sup>	1

## Load

		MULTIPLY NUMBER OF			
by		Pound	Grams	Newton	Dyne
TO OBTAIN	Pound	1	2.205 x 10 <sup>-3</sup>	.2248	2.248 x 10 <sup>-6</sup>
	Grams	453.6	1	102.0	1.020 x 10 <sup>-3</sup>
	Newton	4.448	9.807 x 10 <sup>-3</sup>	1	1.0 x 10 <sup>-5</sup>
	Dyne	4.448222 x 10 <sup>5</sup>	980.665	1.0 x 10 <sup>5</sup>	1

## Torque

	N-m
1 oz-in	7.06 x 10 <sup>-3</sup>
1 lb-in	0.113
1 lb-ft	1.3558
1 kg-m	9.806
1 dyne-cm	1.00 x 10 <sup>-7</sup>

## Temperature

°C	(°F - 32)/1.8
°F	(1.8 x °C) + 32

## Acceleration

1 g	9.806650 m/s <sup>2</sup> = 9.81 x 10
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## Metric Equivalents

	Linear measures
1 centimeter	0.3937 inches
1 inch	2.54 centimeters
1 foot	0.3048 meter
1 meter	38.37 inches ... 1.0936 yards
1 yard	0.9144 meter
1 rod	5.029 meter
1 kilometer	0.621 miles
1 mile	1.609 kilometers

	Weight measures
1 gram	0.03527 ounces
1 ounce	28.35 grams
1 kilogram	2.2046 pounds
1 pound	0.4536 kilograms
1 metric ton	0.98421 English tons
1 English ton	1.016 metric tons

## Linear Displacement

in	SI unit
0.01	0.254 mm
0.1	2.54 mm
1.0	2.54 cm
1.0	25.4 mm
2.0	50.8 mm
3.0	76.2 mm
4.0	101.6 mm
5.0	127.0 mm
6.0	152.4 mm
7.0	177.8 mm
8.0	203.2 mm
9.0	228.6 mm
10.0	254.0 mm
1 ft	0.3048 m
1 yard	0.9144 m

Specifications subject to change.

**Questions?** Contact us at either 1-800-848-6564, +1 614-850-5000, or our Web site for customized options: (<http://sensing.honeywell.com/TMsensor-help>).

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