

# Physical units

Quantity	Unit	Abbrev.	Definition	Equivalence
<b>1) Basic units - SI System</b>				
<b>LENGTH</b>	Metre	m	.	1m = 3.2808 foot = 39.37 inch
<b>MASS</b>	Kilogram	kg	.	1 kg = 2.2046 pound
<b>TIME</b>	Second	s	.	.
<b>TEMPERATURE</b>	Kelvin / Celsius	°	1 °K = 1 °C	0 °K = - 273.16 °C 1 °C = (°F-32) / 1.8 1 °F = 1.8 °C + 32
<b>2) Derived units</b>				
<b>CAPACITY</b>	Litre	l	1 l = 1 dm <sup>3</sup>	.
<b>FORCE</b>	Newton	N	1 N = 1 m kg / s <sup>2</sup>	1 N = force producing an acceleration of 1 m / s <sup>2</sup> for a mass of 1 kg
<b>ENERGY</b>	Joule	J	1 J = 1 N m	1 Btu = 1'054.35 J 1 Cal = 4.184 J 1 Wh = 3'600 J
<b>POWER</b>	Watt	W	1 W = 1 J / s	1 W = 0.001342 hp 1 W = 1.162 kCal/h