

THE INTERNATIONAL SYSTEM OF UNITS (SI)

The information provided below is for convenient reference in providing product specification is SI.

SI Base Units

SI is founded on seven base units:

Quantity	Name of Unit	Symbol
length	meter	m
mass	kilogram	kg
time	second	s
electric current	ampere	A
thermodynamic temperature	centigrade or fahrenheit	C or F
amount of substance	mole	mole
luminous intensity	candela	cd

There are also two supplementary units:

Quantity	Name of Unit	Symbol
plane angle	radian	rad
solid angle	steradian	sr

SI Derived Units

Derived units are formed with base and/or supplementary units.

Quantity	Name	Symbol	Equivalent to
force	newton	N	kg•m/s ²
pressure	pascal	Pa	N/m ²
work, energy, quantity of heat	joule	J	N•m
power, heat flow rate	watt	W	J/s
quantity of electricity	coulomb	C	A•s
electrical potential	volt	V	V/A
electric resistance	ohm	Ω	V/A
electric capacitance	farad	F	C/V
electric conductance	siemens	S	A/V
magnetic flux	weber	Wb	V•s
inductance	henry	H	Wb/A
magnetic flux density	tesla	T	Wb/m ²
frequency	hertz	Hz	1/s
luminous flux	lumen	lm	cd•sr
illuminance	lux	lx	lm/m ²
activity	becquerel	Bq	1/s
absorbed dose	gray	Gy	J/kg

Common Prefixes

Prefix	Symbol	Means Multiple by	Or by
mega	M	1,000,000	10 ⁶
kilo	k	1,000	10 ³
hecto*	h	100	10 ²
deka*	da	10	10
deci*	d	0.1	10 ⁻¹
centi*	c	0.01	10 ⁻²
milli	m	0.001	10 ⁻³
micro	u	0.000,000,1	10 ⁻⁶

*should be avoided when possible