

Unit Conversion

The table below presents the unit conversion factors employed by Intratec.

Table 1 Unit Conversion

Name	Symbol	Relation to SI
Length		
Meter (SI unit)	m	
Inches	in	= 0.0254 m
Feet	ft	= 12 in = 0.3048 m
Area		
Square meter (SI unit)	m ²	
Square inches	in ²	= 6.4516 x 10 ⁻⁴ m ²
Square feet	ft ²	= 144 in ² = 0.093 m ²
Hectare	ha	= 10 ⁴ m ²
Volume		
Cubic meter (SI unit)	m ³	
Cubic feet	ft ³	= 0.0283 m ³
Liter	l, L	= 1 dm ³ = 10 ⁻³ m ³
Gallon	gal	= 3.785 x 10 ⁻³ m ³
Barrel	bbl (oil)	= 0.1589 m ³
Mass		
Kilogram (SI unit)	kg	
Pound	lb	= 0.4536 kg
Metric ton	mt	= 10 ³ kg
Short ton	st	= 907.185 kg
Pressure		
Pascal (SI unit)	Pa	= 1 N/m ²
Bar	bar	= 10 ⁵ Pa
Atmospheric pressure	atm	= 1.01325 bar = 1.01325 x 10 ⁵ Pa

Name	Symbol	Relation to SI
Pounds per square inch	psi	= 6,894.76 Pa
Temperature		
Kelvin (SI unit)	K	
Celsius	°C	= °C + 273.15
Rankine	R	= 0.556 x R
Fahrenheit	°F	= (°F - 32) x 0.556 + 273.15
Time		
Seconds (SI unit)	s	
Hour	h	= 3,600 s
Day	d	= 24 h = 86,400 s
Year	yr	= 365 d = 8,760 h = 3.154 x 10 ⁷ s
Energy		
Joule (SI unit)	J	= 1 N.m
British thermal unit	Btu	= 1,055.06 J
Kilowatt-hour	kWh	= 3.6 x 10 ⁶ J
Calorie	cal	= 4.1868 J