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Master Converter designed and written by Rodney M. Savard using Borland Delphi 1.0 (16-bit) and 2.0 (32-bit).

Master Converter Help designed and written by Rodney M. Savard using Microsoft Word 7.0 and the Microsoft Help Compiler 3.10.505.

Master Converter is a powerful Microsoft Windows 3.x, Windows 95, and Windows NT utility designed to fill one specific purpose: to be able to quickly and easily convert various units of measurement.

Master Converter can convert 399 units in 22 different categories. The categories include length, area, volume, dry volume, time, speed, mass, density, force, energy, power, pressure, flow, dynamic viscosity, kinematic viscosity, temperature, conductivity, thermal conductivity, angle, light, numbers, and fractions. (See [Convertible Units](#) for a complete listing of the units in each category.)

Master Converter is published and distributed as shareware. If you find Master Converter useful, you are asked to register by sending a nominal fee. With your one-time registration, you will receive a "key" that will remove the opening Wait Screen on **this and all future versions** of Master Converter. (See [Registration Information](#) for more information.)

Warning: This program, along with all documentation, is protected by copyright law. Unauthorized reproducing, disassembling, reverse-engineering, or decompiling of this program, or any portion of it or its documentation, is strictly prohibited.

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Several reliable sources were used to determine and verify conversion factors. While every attempt has been made to provide the most accurate conversions possible, neither Savard Software nor its employees may be held liable for any damages resulting from the use or inability to use this software.

The following is a list of the type of units Master Converter can convert. Under each category you'll find a list of the convertible units:

Length

kilometer	hectometer	dekameter
meter	decimeter	centimeter
millimeter	micrometer	nanometer
angstrom	fermi	mile
furlong	chain	rod
perch	pole	fathom
yard	foot	link
inch	mil	megaparsec
kiloparsec	parsec	lightyear
astronomical unit	nautical mile	mile (US Survey)
foot (US Survey)	long reed (Biblical)	reed (Biblical)
long cubit (Biblical)	cubit (Biblical)	span (Biblical)
handbreadth (Biblical)	fingerbreadth (Biblical)	

Area

square kilometer	square hectometer	square dekameter
square meter	square decimeter	square centimeter
square millimeter	square micrometer	square nanometer
hectare	are	barn
square mile	square mile (US Survey)	square yard
square foot	square inch	cuerda
township	section	acre
rood	square chain	square rod
square perch	square pole	

Volume

cubic meter	cubic centimeter	cubic yard
cubic foot	cubic inch	hectoliter
dekaliter	liter	deciliter
centiliter	milliliter	cc
drop	dekastere	stere
decistere	cord	board foot
tun	barrel	gallon
gallon (UK)	quart	pint
cup	ounce	ounce (UK)
tablespoon	teaspoon	cor (Biblical)
homer (Biblical)	bath (Biblical)	hin (Biblical)
cab (Biblical)	log (Biblical)	

Dry Volume

barrel	liter	pint
quart	peck	bushel
cor (Biblical)	homer (Biblical)	ephah (Biblical)
seah (Biblical)	omer (Biblical)	cab (Biblical)

log (Biblical)

Time

millennium	century	decade
leap-year	year	sidereal year
tropical year	month (30 days)	fortnight
week	day	hour
minute	second	millisecond
microsecond	nanosecond	picosecond
femtosecond	attosecond	

Speed

kilometer/hour	kilometer/minute	kilometer/second
meter/hour	meter/minute	meter/second
centimeter/hour	centimeter/minute	centimeter/second
mile/hour	mile/minute	mile/second
foot/hour	foot/minute	foot/sec
knot	mach (sound)	c (light)

Mass

kilogram	hectogram	dekagram
gram	decigram	centigram
milligram	microgram	dyne
dalton	kip	hundredweight
pound	ounce	slug
stone	ton	ton (long)
ton (metric)	troy pound	troy ounce
carat	grain	pennyweight
scruple	talent (Biblical Hebrew)	mina (Biblical Hebrew)
shekel (Biblical Hebrew)	bekah (Biblical Hebrew)	gerah (Biblical Hebrew)
talent (Biblical Greek)	mina (Biblical Greek)	tetradrachma (Biblical Greek)
didrachma (Biblical Greek)	drachma (Biblical Greek)	denarius (Biblical Roman)
assarion (Biblical Roman)	quadrans (Biblical Roman)	lepton (Biblical Roman)

Density

gram/cubic centimeter	kilogram/cubic meter	gram/cubic meter
milligram/cubic meter	pound/cubic inch	pound/cubic foot
ounce/gallon	ton/cubic yard	

Force

kilonewton	newton	millinewton
dyne	joule/meter	joule/centimeter
kilogram force	gram force	kip force
pound force	ounce force	poundal

Energy

gigajoule	megajoule	kilojoule
joule	millijoule	microjoule
nanojoule	attojoule	erg

gigawatt-hour
watt-hour
kilocalorie
newton-meter
pound force-foot
poundal-foot
kiloelectron volt

megawatt-hour
watt-second
calorie
dyne-centimeter
pound force-inch
therm
electron volt

kilowatt-hour
horsepower-hour
BTU
gram force-centimeter
ounce force-inch
megaelectron volt

Power

megawatt
milliwatt
BTU/hour
kilocalorie/second
pound-foot/second

kilowatt
horsepower
BTU/minute
calorie/second
ton (refrigeration)

watt
horsepower (boiler)
BTU/second
pound-foot/minute

Pressure

megapascal
bar
atmosphere
kilogram/square meter
ton/square inch
torr
inch mercury (32°F)

kilopascal
millibar
psi
kilogram/square centimeter
pound/square foot
centimeter mercury (0°C)
inch water (60°F)

pascal
microbar
dyne/square centimeter
ton/square foot
pound/square inch
millimeter mercury (0°C)

Flow

gallon/day
gallon/second
gallon (UK)/minute
ounce/minute
ounce (UK)/minute
liter/hour
milliliter/hour
cubic meter/day
cubic meter/second
cubic centimeter/second
cubic yard/second
cubic foot/second

gallon/hour
gallon (UK)/day
gallon (UK)/second
ounce/second
ounce (UK)/second
liter/minute
milliliter/minute
cubic meter/hour
cubic centimeter/hour
cubic yard/hour
cubic foot/hour

gallon/minute
gallon (UK)/hour
ounce/hour
ounce (UK)/hour
liter/day
liter/second
milliliter/second
cubic meter/minute
cubic centimeter/minute
cubic yard/minute
cubic foot/minute

Temperature

Celsius
Rankine

Fahrenheit
Réaumur

Kelvin

Angle

degree
minute
circle
right angle

radian
second
turn
sextant

grade
revolution
quadrant
octant

Light

foot-candle
lux
lambert

meter-candle
phot

flame
sb

Numbers

binary
hexadecimal

octal
Roman numeral

decimal
(bases 2-36)

Fractions

[im]proper fraction

mixed number

Dynamic Viscosity

newton-second/square meter
poise
poundal-second/square foot
pound/foot-second

millinewton-second/square meter
centipoise
gram/centimeter-second

dyne-second/square centimeter
pound force-second/square foot
slug/foot-second

Kinematic Viscosity

stoke
square centimeter/second

centistoke
square millimeter/second

square meter/second
square foot/second

Conductivity

mho
microsiemens

micromho
statmho

siemens

Thermal Conductivity

BTU-inch/hour-square foot-degree F
calorie/second-centimeter-degree C
watt/meter-degree K

BTU/hour-foot-degree F
kilowatt/meter-degree K
watt/centimeter-degree C

If you find that Master Converter does not have a specific conversion unit or category that you would like, you are strongly encouraged to contact the author and request that support for it to be added.

In your request, be sure to state the unit you would like to have added and which category it belongs under. If possible, give a general conversion rate from one of the units already in that category. This will assist me in finding the most accurate conversion rate possible. **All requests** will be considered for future versions of Master Converter.

See [Contacting the Author](#) for information on where to send your request.

Converting units with Master Converter could not be easier. In these instructions, we will refer to the text box in the upper-left as the **convert from text box**, the text box in the upper-right as the **convert to text box**, the list on the left as the **convert from list**, and finally the list on the right as the **convert to list**.

To use the program, first choose the category of units you'd like to convert by clicking on the appropriate index tab at the bottom of the window. Next, choose the units to convert **from** by selecting it from the **convert from list**. Next, choose the units to convert **to** by selecting it from the **convert to list**.

As you type the number you want converted into the **convert from text box**, it will automatically be converted and displayed in the **convert to text box as you type!**

Notes:

You cannot type into the **convert to text box**, nor can you modify the displayed value.

If you type an illegal number into the **convert from text box**, then the words "invalid number" (or similar) will appear in the **convert to text box**.

Exit! menu: Closes Master Converter.

Edit menu:

- Cut** Copies the selected text to the clipboard and then clears it from the text box.
- Copy** Copies the selected text to the clipboard for pasting into other applications.
- Paste** Copies text from the clipboard and places it in the active text box.
- Clear Input Box** Erases the contents of the current input text box. This is a quick way to erase the text box, especially when this menu option is activated via its shortcut key (Ctrl+T).
- Clear All Text and List Boxes** Erases the contents of all text boxes and unselects all units in each unit category.

Options menu:

- Result Number Format** Takes you to the [Result Number Format screen](#) which allows you to change the format of the displayed conversion result.
- Fonts** Brings up the [Fonts screen](#) which lets you customize the text box, list box, and index tab fonts.
- Sort Units Alphabetically** Sorts the unit lists alphabetically instead of by similarity.
- Invert Current Conversion** Quickly reverses the current conversion by swapping the selected units and the contents of the text boxes.
- Choose Unit Category** Shows the [Choose Unit Category screen](#) which allows you to choose the unit category. This is identical to choosing a category by clicking on its tab at the bottom of the Master Converter screen, but this method may work better for some.
- Arrange Category Order** Displays the [Arrange Category Order screen](#), allowing you to arrange the unit categories in any order. Put the most used categories at the front of the index tab!

Fonts sub-menu:

Text and List Boxes	Allows you to change the font used by the text and list boxes.
Index Tab	Allows you to change the font used by the index tab category selector.
Reset Fonts	Resets the fonts to the default values. (Arial, 10pt, bold for the text boxes and list boxes; Small Fonts, 7pt for the index tab category selector.)

Reference menu:

Calculator	Starts the Windows Calculator program.
Metric Prefixes	Displays the online help topic that shows metric prefixes. Along with the names of the prefixes, the multiplication factors and symbols are given.

Help menu:

Contents	Calls up the contents page of the Master Converter help file.
Search for Help On	Brings up the help search dialog, allowing you to search for a specific word or section in the Master Converter help file.
How to Use Help	Brings up instructions for using the Windows Help system.
Registration Form	Displays a registration form that can be filled out with the keyboard and printed. This form also calculates the registration price automatically.
About	Displays a dialog box showing some information about the current version of Master Converter, the date it was released, and the total number of units it supports. E-mail and world wide web addresses of the author are also found on this screen.

This screen allows you to set the format of the displayed conversion result. As you adjust the following options, a demonstration of the result can be seen in the Sample field.

Choose Result Number Format section:

AutoFormat Master Converter to determines the best format (either Fixed or Scientific) to display the result. This is the default option.

Scientific The result is displayed in scientific notation. (e.g., 1234.56e+05)

Fixed The result is displayed with a fixed number of decimal places.

Fixed with Commas Same as Fixed, but adds thousands separators.

Decimal Precision Allows you to set the number of decimals to be displayed. This option is not available if AutoFormat is selected.

OK Accepts the currently specified number format and returns you to Master Converter.

Cancel Ignores any changes you have made to the number format and returns you to Master Converter.

This screen lets you customize the fonts that Master Converter uses in its list boxes, text boxes, and also the index tab.

- Change** Click on this button to change either the text box and list box fonts, or the index tab font.
- Reset** Resets the fonts back to their default values. (Arial, Bold, 10 point for text and list boxes, and Small Fonts, 7 point for the index tab.)
- OK** Accepts the currently selected fonts and returns you to Master Converter.
- Cancel** Ignores any changes you have made to the fonts and returns you to Master Converter.

This screen lets you choose the unit category that is currently displayed on the Master Converter screen. Choosing the unit category this way is identical to choosing it by using the index tab at the bottom of the Master Converter screen, but may be easier for some, especially when the index tab is not displaying all unit categories simultaneously.

- OK** Returns you to Master Converter, changing the unit category to the one you selected.
- Cancel** Returns you to Master Converter without changing the unit category.

This screen allows you to customize the order of the unit categories on the index tab. You can use this screen to place most-used unit categories at the front (left side) of the index tab, allowing faster access to those unit categories.

- Up** Promotes the currently selected unit category.
(Positions it closer to the left side of the index tab.)
- Down** Demotes the currently selected unit category.
(Positions it closer to the right side of the index tab.)
- Sort** Alphabetizes the units categories.
- Reset** Resets the unit categories back to their default order.
- OK** Accepts the new unit category order and returns you to Master Converter.
- Cancel** Returns you to Master Converter without changing the unit category order.

You may receive technical support regardless if you are registered or not. Here are some ways you are welcome to contact the author. Also, you can check the Savard Software World Wide Web site for the latest version of Master Converter.

Mail:

Rodney M. Savard
399 N. Arthur Street, #102
Kennewick, WA 99336-2158
USA

Internet:

e-mail: rsavard@oneworld.owt.com

World Wide Web: <http://www.owt.com/users/rsavard/software.html>

Voice:

+1 (509) 736-6342 (8AM - 8PM Pacific Time only, please)

Master Converter is published as a shareware software product. The goal behind the shareware software concept is to give you the ability to try out a program **before** you actually pay for it.

If you find this program useful, please support the shareware software concept by registering! Your support will help ensure future development of this program!

When you register, you'll receive a "key" that will remove the opening Wait Screen on this and **all future versions** of Master Converter. Once you register, there will never be a need to register again!

See the [Registration Form](#) for pricing details.

Master Converter

Please print this form and fill it out. Alternatively, you can use the registration form built-in to Master Converter. Once filled out, please mail the form to:

Rodney M. Savard
399 N. Arthur Street, #102
Kennewick, WA 99336-2158
USA

Payments should be made by a check in U.S. dollars. Alternatively, you may send an international postal money order in U.S. dollars. Sending U.S. cash through the mail is not recommended but is acceptable.

Upon receipt of payment, a registration number will be sent to you that removes the opening Wait Screen on this and all future (both 16-bit and 32-bit) versions of Master Converter.

Check the appropriate boxes below, depending on how many licenses you would like to register. Confused? Please see the [example registration form](#), or use the registration form that's built-in to Master Converter as it calculates the total price automatically. (To use the built-in form, press the **Registration Form** button on the opening Wait Screen.)

☒ First license: \$15.00 \$ **15.00**

☐ 2nd through 19th licenses: \$11.00ea x _____ \$ _____

☐ 20th through 49th licenses: \$ 9.00ea x _____ \$ _____

☐ 50th through 99th licenses: \$ 7.00ea x _____ \$ _____

☐ 100th license and beyond: \$ 5.00ea x _____ \$ _____

TOTAL LICENSES _____ **TOTAL PRICE \$** _____

Name: _____ Date: _____

Company: _____

Address: _____

City, State, ZIP: _____

Country: _____ Phone: _____

e-mail address: _____

Downloaded from: _____

Where I heard about it: _____

Comments: _____

This example shows how you would fill out the registration form if you were going to register **30 licenses** of Master Converter:

<input checked="" type="checkbox"/> First license:	\$15.00	\$	15.00
<input checked="" type="checkbox"/> 2nd through 19th licenses:	\$11.00ea x 18	\$	198.00
<input checked="" type="checkbox"/> 20th through 49th licenses:	\$ 9.00ea x 11	\$	99.00
<input type="checkbox"/> 50th through 99th licenses:	\$ 7.00ea x _____	\$	_____
<input type="checkbox"/> 100th license and beyond:	\$ 5.00ea x _____	\$	_____
TOTAL LICENSES <u> 30 </u>		TOTAL PRICE \$ <u> 312.00 </u>	

The more licenses are purchased, the more money you save. In this example, purchasing 30 licenses saves you \$138.00 since each license only ends up costing \$10.40!

Go back to the [Registration Form](#).

The following table shows the prefixes used in metric units and their multiplication factors and symbols:

	Multiplication Factors	Prefix	Symbol
1e18	1,000,000,000,000,000,000	exa	E
1e15	1,000,000,000,000,000	peta	P
1e12	1,000,000,000,000	tera	T
1e9	1,000,000,000	giga	G
1e6	1,000,000	mega	M
1e3	1,000	kilo	k
1e2	100	hecto	h
1e1	10	deca / deka	da
1e-1	0.1	deci	d
1e-2	0.01	centi	c
1e-3	0.001	milli	m
1e-6	0.000 001	micro	μ
1e-9	0.000 000 001	nano	n
1e-12	0.000 000 000 001	pico	p
1e-15	0.000 000 000 000 001	femto	f
1e-18	0.000 000 000 000 000 001	atto	a

