Metricon *v. 2.03*

Introduction

What is Metricon?
Using the unit converter

How to...

How to copy conversions to the clipboard
How to use the calculator
How to use the mouse functions
How to edit currency conversion factors
How to change the display format
How to store settings on disk

Licensing

License agreement
How to order additional copies
Order form
Disclaimer

WHAT IS METRICON?

Welcome to Metricon v. 2.03, the Unit Converter for the Windows operating system. Metricon allows complete cross-conversion of 339 units in 42 general and scientific categories, including currency and temperature. It comprises a calculator, updateable exchange rates, an easy drag-and-drop mode, a clipboard utility for exchange of data with other applications, and more. These superior features make Metricon the standard for unit conversion software: Metricon is currently in use in several multinational corporations (e.g. Hewlett-Packard*, Champion International*, EG&G*, ITT Rayonier*, Falcon Jet*, Phoenix Technologies*) and government agencies.

Metricon unit conversions are based on ASTM Standard E380-91: Standard Practice for Use of the International System of Units (SI) (the Modernized Metric System).
Metricon requires an IBM-compatible computer running the Microsoft Windows 3.1 operating system with the SHARE utility, 4 Meg RAM memory, a VGA screen and a mouse. If the SHARE utility is not installed on your system, install it by adding the following line to your AUTOEXEC.BAT file,

C:\DOS\SHARE.EXE /L:500 /F:5100

then rebooting the system.

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USING THE UNIT CONVERTER

First, choose a subject: Click (press, then release) a subject in the subject list box on the left of the screen.

Then, choose a category**:** Click a category in the category list box, in the middle of the screen. The table of unit equivalents in the right part of the screen now contains conversion factors for the selected category, with the SI or standard unit highlighted in yellow.

To convert from a single unit to all others in a category**:** Click on the unit symbol in the units list box.

EXAMPLE: To convert feet to Angstroms, centimeters, inches, ...etc.

1- Click "General" in the subject list box. General categories appear in the category list box.
2- Click "Length" in the category list box. Length units appear in the units list box.
3- Position the mouse over "ft" and click the left mouse button. The conversion of units appears in the display area as

3.0480 E9	A
30.4800	cm
1	ft
12	in
0.0003	km
3.2218 E-17	l-y
0.3048	m
0.0002	mi
...etc.	

To convert physical quantities (i. e., a number plus a unit):

Click the number cell in the units list box, left of the symbol for the "origin" unit.

Type the number value for the "origin" quantity from the keyboard. Press the "Enter" key.

The corresponding quantities appear in the unit table.

EXAMPLE: To convert 100 degrees C to degrees Fahrenheit:

1- Click "General" in the subject list box. General categories appear in the category list box.
2- Click "Temperature" in the category list box. Temperature units appear in the units list box.
3- Click the number cell to the left of " C". Enter 100 from the keyboard. Press the Enter key.

The unit table changes as follows:

100.0000	C
212.0000	F
373.1500	K
671.6700	R

HOW TO COPY CONVERSIONS TO THE CLIPBOARD

To copy conversions to the windows clipboard:

PRESS the left mouse button over the symbol of the "**origin**" unit in the units list box;

DRAG the mouse over to the symbol of the "**destination**" unit. **DROP** (release) the mouse button.

The conversion of units appears in the display area above the units list box, in the format:

X "**Origin** unit" = Y "**Destination** unit"

The contents of the display area are placed in the Windows **clipboard**, ready for pasting into a spreadsheet or other Windows application.

EXAMPLE: To place the meter-to-feet conversion in the Windows **clipboard**:

1- Click "General" in the subject list box. General category appear in the category list box.

2- Click "Length" in the category list box. Length units appear in the units list box.

3- Position the mouse over "m" and press the left mouse button. Drag the mouse over to "ft" and release the left mouse button. The conversion of units appears in the display area as

1 m = 3.2808 ft

In like fashion you may copy numbers to the **clipboard** by dragging them from the number column to the **clipboard** display area.

HOW TO USE THE CALCULATOR

The **calculator** is accessed by clicking the **calculator** icon. You may perform algebraic calculations, then copy the results of calculations to the **clipboard** area or the numbers table by dragging and dropping the **calculator** readout. Copying the **calculator** readout to a cell in the numbers table triggers unit conversions based on that number.

HOW TO USE THE MOUSE FUNCTIONS

The left mouse button generally performs an action, while the right button provides information. Pressing and holding the right mouse button over a control will display a description of the control in the status bar at the bottom of the screen. To see the full name of units, press and hold the right mouse button over a unit symbol.

HOW TO EDIT CURRENCY CONVERSION FACTORS

Currency units are displayed with the date of the last update. To update currency conversion factors as exchange rates vary, click the pound sign icon or select "Update currency conversions" from the options menu. Current conversion factors appear in the currency dialog box along with currency symbols. Enter the new conversion factors, then press the OK button to update them in memory. The new exchange rates are displayed in the unit table.

To quit the currency dialog box without updating conversion factors, press the cancel button.

HOW TO CHANGE THE DISPLAY FORMAT

You may choose between fixed or scientific display, and adjust the number of decimals displayed, from the option buttons and decimals box in the display format area.

The display format automatically changes to scientific in the following cases:

- The high absolute value of the number, with the specified number of decimals, would cause the display to overspill;

- The low absolute value of the number would cause a non-zero quantity to display as zero.

HOW TO STORE SETTINGS ON DISK.

Current settings are stored by clicking the disk icon or by choosing "Save settings now" from the options menu. The settings stored are:

- Date of last currency update
- Currency conversion factors
- Display format (fixed or scientific, # of decimals)
- Active subject:
- Active category
- Status of "Save settings on exit" option
- Status of "Reset on exit" option

To save settings automatically on exit, check the "Save settings on exit" option in the options menu. To restore settings to their original value (General - Area - Fixed - 4 decimals - Settings not stored on exit - Reset on exit) click the reset option. To reset automatically each time you exit Metricon, check the "Reset on exit" option. You may select none or either of the "Save settings on exit" and "Reset on exit" options, but not both.

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Company:_____

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Field or discipline to which a unit or category is related, e.g. mathematics, mechanics.

Group of units representing the same physical property, e.g. length, temperature.