

# TI-Freakware's Converter v 2.0.4

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## 1. Installing this program

To install TIFC to your calculator, use your favorite linking program (TI-Connect or TILP) to drop TIFC.8xp on to your calculator.

## 2. How to use

Once you have TIFC installed, open the program list by pressing [PRGM] and selecting TIFC. Press [ENTER] twice to start the program. Inside the program, the [2<sup>ND</sup>] key advances you to the next menu, and is your select key. Use the arrow keys to scroll up and down, and on menus that have too many options for one page, press the [F5] key to go to the next page of options. [MODE] will back you up from the main menu to the title screen. [MODE] in one of the conversion options screens will send you back to the enter value screen. The up and down arrow keys allow you to scroll through your selections to choose.

## 3. About this program

This is version 2.0 of the TIFC. The previous version only supported roughly 68 conversions, took 4 programs and a picture variable, and was around 6kb in size. Version 2.0 supports the usage of a single program, and boasts 708 conversions available in this single program of just over 7kb in size. It is also available for the TI-73, TI-82, TI-83, TI-83+/84+ and TI-84+CSE, with the potential of being programmed on other calculators at a later date.

## 4. Conversions Supported

### Length

ft▶	foot
in▶	inch
yd▶	yard
mi▶	mile
cm▶	centimeter
m▶	meter
km▶	kilometer

nm	▶	
lea	▶	league
fur	▶	furlong
ftm	▶	fathom
ly	▶	light-year
lm	▶	light-minute
ls	▶	light-second

## Area

cm <sup>2</sup>	▶	centimeters squared
ft <sup>2</sup>	▶	foot squared
in <sup>2</sup>	▶	inches squared
km <sup>2</sup>	▶	kilometer squared
m <sup>2</sup>	▶	meter squared
mile <sup>2</sup>	▶	
mm <sup>2</sup>	▶	millimeter squared
yd <sup>2</sup>	▶	yard squared

## Volume

Liter	▶	
cm <sup>3</sup>	▶	Centimeters cubed
m <sup>3</sup>	▶	Meters cubed
gal	▶	gallons
in <sup>3</sup>	▶	inches cubed
ft <sup>3</sup>	▶	foot cubed
quart	▶	
pint	▶	
ounce	▶	
cup	▶	

## Weight/Mass

CT	▶	carat
g	▶	gram
kg	▶	kilogram
oz	▶	ounce
lb	▶	pound
US Ton	▶	
Tonne	▶	
Stone	▶	
UK Ton	▶	

## Energy/Work

J	▶	joule
EV	▶	electron volt
KWH	▶	kilowatt hours
BTU	▶	
KCAL	▶	Kilocalories, or Nutritional Calories
ERG	▶	
TNT	▶	Tonne of TNT

## Speed

m/s▶	meters per second
kph▶	kilometers per hour
ft/s▶	foot per second
mph▶	Miles Per hour
knot▶	
c▶	Speed of Light

## Pressure

psi▶	
bar▶	
Pa▶	Pascals
at▶	Technical Atmosphere
atm▶	Atmosphere
Torr▶	

## Temperature

°F▶	Fahrenheit
°C▶	Celsius
K▶	Kelvin
°R▶	Rankine

## Time

ns▶	nanoseconds
us▶	microsecond
ms▶	millisecond
s▶	second
m▶	minute
hr▶	hour
d▶	day
w▶	week
fn▶	fortnight
mo▶	month
yr▶	year
decade▶	
century▶	
millennium▶	

## Torque

NM▶	newton-meters
LB FT▶	foot pounds
LB IN▶	inch pounds
OZ IN▶	inch ounces

## 5. Bug fixes

Version 2.0.1

- Found a bug with Pressures that the cursor was moving incorrectly
- Found that the pages variable wasn't being set to 1 when returning to the main options screen.

#### Version 2.0.2

- Found issue when quitting the program from main screen.

#### Version 2.0.3

- Added " =" to the end of the converted units, based on feedback from merthsoft
- Added unit 'cup' to volume, increased conversions by 18.

#### Version 2.0.4

- Found Torque data to be inaccurate, mistakenly wrote the wrong values into the list, fixed

## 6. Credits

I'd like to throw a big thank you to comicIDIOT for suggesting the new display theme, to show all conversions on one screen instead of having a long list of conversions to show off one at a time. Elfprince13 was instrumental in helping keep the size of TIFC down by pointing out a way to use lists and an intermediate unit to convert to and from. I'd had similar ideas with lists, but was lacking the intermediate part to make it work, so many thanks to him for helping me there. Thank you out to KermMartian, Xeda112358, and DJ\_O for the verbal support of picking this project up and revamping it. :)

## 7. Where to go to for help

If you run across a problem with this program, would like to tell me I need to add more conversions (please tell me what ones I'm missing, not just that I just need to add more) or just have general questions about this program, please feel free to visit <http://tifreakware.net/forum> or <http://www.cemetech.net/forum> and give me a shout. You can also hit my email up at [tifreak8x@hotmail.com](mailto:tifreak8x@hotmail.com) and I'll get back with you fairly shortly.