HOME PROJECTCALC® Pocket Reference Guide



Model 8510

JJ CALCULATED INDUSTRIES



Table of Contents	
Key Definitions	3
Basic Function Keys	3
Dimensional Unit Keys	3
Convert Key Functions	
Memory	5
Memory Entering Square or Cubic	6
Fractional Resolution	6
Project Keys Basic Dimensional Math	6
Basic Dimensional Math	8
Linear Conversions	
Square and Cubic Conversions	8
Basic Dimensional Math	9
Project Examples —	
Using Default Values	10
Paint: Gallons, Quarts, or Pints	10
Wallpaper: Rolls	
Tiles: Quantity	
Carpet: Length	
Concrete: Bags	12
Finding the Cost of Materials	12
Cost of Concrete	12
Auto Shut-Off and Battery	13
Reset	
Auto Shut-Off	TJ
Battery Repair and Return	
Panair and Patura Information	14
Repair and Return Information	14
Warranty Repair Service: U.S.A	15
Non-Warranty Repair Service: U.S.A	16
Repair Service: Outside the U.S.A	16
Disclaimer	17
FCC Class B.	
Looking for New Ideas	

Key Definitions

Basic Function Keys

- On/Clear Key turns power on.
 Pressing once clears the display.
 Pressing twice clears all
 temporary values.
- **Off** turns all power off, clearing all non-permanent registers.
- ♣ Arithmetic operation keys.♠ ♠
- ① ② Digits used for keying in numbers.
- Percent four-function (+, -, x, ÷) percent.

Dimensional Unit Keys

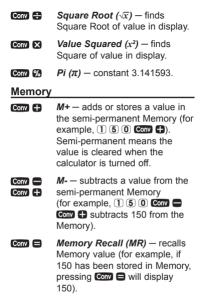
- Yards Key enters or converts to
- Feet Key enters or converts to Feet as whole or decimal numbers. Also used with the nch and ✓ keys for entering Feet-Inch-Fraction values (for example, ⑥ col ᠀ nch 1 ✓ 2). Repeated presses during conversions toggle between Feet-Inch-Fractions and Decimal Feet.

- Inch Key enters or converts to Inches. Entry can be whole or decimal number. Also used with the ☑ key for entering Fractional Inch values (for example, ⑨ Imm ① ☑). Repeated presses during conversions toggle between Fractional and Decimal Inches.
- Fraction Bar Key used to enter fractions. Fractions can be entered as proper (1/2, 1/8, 1/16) or improper (3/2, 9/8).
- Meter Key enters or converts to Meters.

Convert Key Functions

Convert Key — used with the dimensional unit keys to convert between dimensions, the Project Keys to calculate material quantities, or with other keys to access special functions.

Conv Change Sign (+/-) — toggles displayed value between positive and negative.



Memory Clear (MC) — clears Memory value.

Entering Square or Cubic

To label a dimension as "Square" or "Cubic," enter the value, then press the desired dimension key twice for Square and three times for Cubic. For example, to enter 25 Cubic Yards, press 2 5 765 765

Fractional Resolution

values to the nearest 16th of an Inch (default setting). Press conv of to access the Fractional Resolution setting. Repeated presses of of then revolve through the available settings: 1/16, 1/32, 1/64, 1/2, 1/4, and 1/8 Press conv to set and exit

Your calculator is set to display Fractional

Project Keys

Wall

Paint — calculates volume of paint, based on an entered or calculated area. Finds quantity in Gallons, Quarts, or Pints with repeated presses.

Wallpaper — calculates number of rolls of wallpaper, based on an entered or calculated area.

based on an entered or calculated area. Repeated presses scroll between numbers of tiles for various standard tile sizes (18", 16", 13", 12", 10", 8", 6", 4", 2", 1", and 24").

Note: Tile sizes are shown in Inches, not Square Inches. In other words, a 6" tile is really 6" x 6", or a 36 Square-Inch tile, but it is labeled as a 6" size.

Carpet — calculates carpet length required, based on entered or calculated area. Repeated presses of care scroll between values for 12'. 13'. and 15' rolls.

Concrete — calculates the number of bags of concrete required, based on an entered or calculated volume (for example, Cubic Feet or Cubic Yards).

Conv

■ Cost — allows you to calculate total material cost

Basic Dimensional Math Linear Conversions

Convert 15 Feet 9-1/16 I	Inches to other	
units of measure.		

DISPLAY KEYSTROKE On/C

0.

1 5 Feet 9 Inch 1 / 1 6

15 FFFT 9-1/16 INCH

Conv Feet 15 75521 FEET

Conv Inch 189 0625 INCH Conv Yds 5.251736 yr

Conv m 4.802187 M

Convert 14.793 Decimal Inches to Fractional Inches

KEYSTROKE DISPLAY On/C n

1 4 • 7 9 3 Inch 14.793 INCH

Conv Inch 14-13/16 INCH Square and Cubic Conversions

Convert 25 Square Feet to other Square

dimensions

KEYSTROKE DISPLAY

On/C n

25, sq feet 2 5 Feet Feet 2.777778 so yo Conv Yds

Conv m 2.322576 so M

KEYSTROKE	DISPLAY
On/C	0.
2 5 Feet Feet Feet	25. CU FEET
Conv Yds	0.925926 CU YD
Basic Dimensional M	ath
KEYSTROKE	DISPLAY
On/C	0.
Adding Dimensions:	
1 0 Inch + 2 Feet	
5 Inch =	3 FEET 3 INCH
Subtracting Dimensions:	
5 Feet —	
1 Inch 3 / 4 =	4 FEET 10-1/4 INCH
Dividing Dimensions:	
1 0 Feet ÷	
1 Inch 1 / 4 =	96.
Multiplying Dimensions/W	aste Factor
Allowance:	
1 5 0 Feet Feet +	
10%	165. SQ FEET
Finding Area/Square Feet	
2 Feet X	
Teet 2 Inch =	2.333333 SQ FEET

Convert 25 Cubic Feet to Cubic Yards.

(cont'd)

Finding Volume/Cubic Feet: (5) Feet (X) (1) (•) (5)		
Feet X 2 Inch =	1.25 CU FEET	
Project Examples — Using Default Values		
Paint: Gallons, Quarts, or Pints		

DISPLAY

(cont'd) KEYSTROKE

How many Quarts of paint do you need to

1 2 Feet X 8 Feet =	96. SO FEET
On/C	0.
KEYSTROKE	DISPLAY
Pints? How many Gallons?	
cover a wall measuring 12' x 8"	? How many

1.10 or Paint Paint 2.19 Pt

Paint 0.27 gi

Wallpaper: Rolls

Find the number of wallpaper rolls needed

for a wall measuring 8' x 12'.

KEYSTROKE DISPLAY On/C

0.

8 Feet X 1 2 Feet = 96, SQ FEET

Wall 1 71 ROLL

Tiles: Quantity

KEYSTROKE

How many tiles do you need to cover a floor measuring 10' x 15"? Find the number of tiles in various sizes. Also, add a 10% waste allowance, in case you need extra tile.

Note: After converting to Tile, press the we key until you reach the desired tile size. The Home ProjectCalc lists 11 of the most popular tile sizes.

On/C	0.
1 0 Feet X 1 5 Feet =	150. SQ FEET
+10%	165. SQ FEET
Tile	73.33 TILE (18 in)
Tile	92.81 TILE (16 in)

DISPLAY

Continuous presses of display the number of tiles for the following additional sizes: 18", 16", 13", 12", 10", 8", 6", 4", 2", 1", 24".

Carpet: Length

Find the quantity of carpet needed to cover a floor that measures 12' 6" x 10' in area.

KEYSTROKE	DISPLAY
On/C	0.
1 2 Feet 6 Inch	

★ ① Geel 日 125. SQ FEET (cont'd)

KEYSTROKE	DISPLAY
Carpet	13.89 sq yd
Carpet	10.42 FEET (12 Ft ROLL)
Carpet	9.62 FEET (13 Ft ROLL)
Carpet	8.33 FEET (15 Ft ROLL)
Concrete: Bags	
Find the number of bags of concrete for a patio measuring 9' x 15' x 4".	
KEYSTROKE	DISPLAY
On/C	0.
9 Feet X 1 5 F	eet
X 4 Inch	45. CU FEET

67.50 BAG

Finding the Cost of Materials

Cost of Concrete How much does 216 Cubic Feet of con-

crete cost, if the Cost Per quoted at \$50?	Cubic Yard is
KEYSTROKE	DISPLAY
On/C	0.
	040

KEYSTROKE	DISPLAY
On/C	0.
2 1 6 Feet Feet Feet	216. CU FEET

8. CU YD

Conv Yds 400.00

★ 5 ① Conv • (Cost)

(Cost = approx. \$400)

Auto Shut-Off and Battery

Reset

If your calculator should ever "lock up," press Reset — a small hole located above the key/upper right. Use the end of a paper clip to press the button.

Auto Shut-Off

After 8 to 12 minutes of non-use.

Battery

Battery Included: One CR-1620 battery. **Battery Life:** 575 hours of actual use.

To replace the battery, use a small Phillip's head screwdriver and unscrew the single screw in the center of the battery door, located on the back of the calculator.

Carefully remove the battery door, remove the old battery from the clips, and replace it with one new CR-1620 battery. Make sure the positive side (+) is facing up. Replace the battery door and reattach the screw.

Repair and Return Repair and Return Information

Return Guidelines:

- Please read the Warranty in this 1 User's Guide to determine if your Calculated Industries product remains under warranty before calling or returning any device for evaluation or repairs. 2. If your product won't turn on, check
- the battery as outlined in the User's Guide 3 If you need more assistance, please
- go to the following Web site: www.calculated.com/warrantv. 4 If you believe you need to return your
 - product, please call a Calculated Industries representative between the hours of 7:00 a.m. and 4:30 p.m. Pacific Time for additional information and a Return Merchandise Authorization (RMA).

Call toll free: 1-800-854-8075 Outside the U.S.A.: 1-775-885-4900

Warranty

Warranty Repair Service: U.S.A.

Calculated Industries (CI) warrants this product against defects in materials and workmanship for a period of one (1) year from the date of original consumer purchase in the U.S. If a defect exists during the warranty period, CI, at its discretion, will either repair (using new or remanufactured parts) or replace (with a new or remanufactured unit) the product at no charge.

THE WARRANTY WILL NOT APPLY TO THE PRODUCT IF IT HAS BEEN DAMAGED BY MISUSE, ALTERATION, ACCIDENT, IMPROPER HANDLING OR OPERATION, OR IF UNAUTHORIZED REPAIRS ARE ATTEMPTED OR MADE. SOME EXAMPLES OF DAMAGES NOT COVERED BY WARRANTY INCLUDE, BUT ARE NOT LIMITED TO, BATTERY LEAKAGE, BENDING, A "BLACK INK SPOT" OR VISIBLE CRACKING OF THE LCD, WHICH ARE PRESUMED TO BE DAMAGES RESULTING FROM MISUSE OR ABUSE.

(cont'd)

To obtain warranty service in the U.S., please visit www.calculated.com/warranty.

A repaired or replacement product assumes the remaining warranty of the original product or 90 days, whichever is longer.

Non-Warranty Repair Service: U.S.A.

Non-warranty repair covers service beyond the warranty period or service requested due to damage resulting from misuse or abuse. Contact Calculated Industries to obtain current product repair information and charges. Repairs are guaranteed for 90 days.

Call toll free: 1-800-854-8075 Outside the U.S.A.: 1-775-885-4900

Repair Service: Outside the U.S.A.

To obtain warranty or non-warranty repair service for goods purchased outside the U.S., contact the dealer through which you initially purchased the product. If you cannot reasonably have the product repaired in your area, you may contact CI to obtain current product repair information and charges, including freight and duties.

Disclaimer

CI MAKES NO WARRANTY OR REPRESENTATION, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THE PRODUCT'S QUALITY, PERFORMANCE, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE. AS A RESULT, THIS PRODUCT, INCLUDING BUT NOT LIMITED TO, KEYSTROKE PROCEDURES, MATHEMATICAL ACCURACY, AND PREPROGRAMMED MATERIAL, IS SOLD "AS IS," AND YOU THE PURCHASER ASSUME THE ENTIRE RISK AS TO ITS QUALITY AND PERFORMANCE.

IN NO EVENT WILL CI BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY DEFECT IN THE PRODUCT OR ITS DOCUMENTATION.

The warranty, disclaimer, and remedies set forth above are exclusive and replace all others, oral or written, expressed or implied. No CI dealer, agent, or employee is authorized to make any modification, extension, or addition to this warranty.

(cont'd)

Some states do not allow the exclusion or limitation of implied warranties or liability for incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific rights, and you may also have other rights, which vary from state to state.

FCC Class B

This equipment has been certified to comply with the limits for a Class B computing device, pursuant to Subpart J of Part 15 of FCC rules.

Looking for New Ideas

Calculated Industries, a leading manufacturer of special-function calculators and digital measuring instruments, is always looking for new product ideas in these areas.

If you have a new product idea, please visit our "Bright Idea" page at www.calculated. com/brightidea.asp. For suggestions about improving this product or other products, please visit us at www.calculated.com under "Contact Us." Thank you.



Software copyrighted and licensed to Calculated Industries, by Construction Master Technologies, LLC, 2011.

Pocket Reference Guide copyrighted by Calculated Industries, 2011. ProjectCalc® and Calculated Industries® are registered trademarks of Calculated Industries, Inc.

> ALL RIGHTS RESERVED Designed in the U.S.A. U.S. Patent 6,721,623

> > Printed in China 1/11

PRG8510E-B

Quick Reference Guide

Basic Examples

Unit keys: Yes feet inch in

Press onc after each example.

FOr length, press unit key once:

6 FEET 3-5/8 INCH 8 \ 6 non 8 teet 8

For area, press unit key twice:

7. SQ FEET feet feet

1991 [991] Zb. CU FEET For volume, press unit key three times:

Key Definitions

rolls needed. covered, then press well to calculate number of Wallpaper - Enter the area of the wall to be pints needed. then press reint to calculate gallons, quarts, or Paint - Enter the area of the wall to be painted,

Concrete - Enter the volume to be filled, then of 12', 13' and 15' rolls needed. covered, then press cape to calculate the length Carpet - Enter the area of the floor to be 10", 8", 6", 4", 2", 1" or 24" tiles needed. then press **III** to calculate 18", 16", 13", 12", Tile - Enter the area of the floor to be covered,

.bebded. press coree to calculate the number of bags

()