

# EngCalc

(Automotive)  
for Pocket PC

Version 2.0  
User Guide

**Product of:-**

3GR Technologies

For Installation information & Sales/Support contacts refer the Read Me file.

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# 1. Introduction

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EngCalc (Automotive) is a Powerful calculator tool for Engineering professionals. It combines performance & accuracy which enables to perform complex engineering calculations. Embedded is another great tool - MxCalc SE, for Converting Units (Most comprehensive converter available) & Evaluating Expressions.

## New Features:

- Calculations in **US units** or **Metric units**. Apply settings for all the calculators.
- Includes large input panel to enter values.
- Mostly operated with finger, no need of stylus.
- In-place Unit Conversion to switch between **US-Metric units for single Input/Output**.

## 1.1 Installation/Uninstallation.

### Requirements:

- You need to have MS ActiveSync Software on your device and make sure your device is connecting with Desktop PC.
- **.Net Framework**

Download & install the .Net framework from the following links in case the system prompts for missing runtime files.

- **PocketPC ( .Net Compact Framework)**

<http://www.microsoft.com/downloads/details.aspx?familyid=9655156b-356b-4a2c-857c-e62f50ae9a55&displaylang=en>

- **Desktop**

[www.microsoft.com/downloads/details.aspx?FamilyId=10CC340B-F857-4A14-83F5-25634C3BF043](http://www.microsoft.com/downloads/details.aspx?FamilyId=10CC340B-F857-4A14-83F5-25634C3BF043) - 33k

### Steps to Install EngCalc (Automotive) program.

- You need to have MS ActiveSync Software on your device and make sure your device is connecting with Desktop PC.
- Execute EngCalcPPC\_Auto\_Setup.exe and follow instructions. ONLY IF prompted to install the .Net Compact Framework on your POCKETPC device execute the Dot\_Net\_Compact\_Framework\_2.msi to start the installation of .Net Compact Framework runtime files.
- When finished, go to Start Menu>>Program, here you will see the Icon of



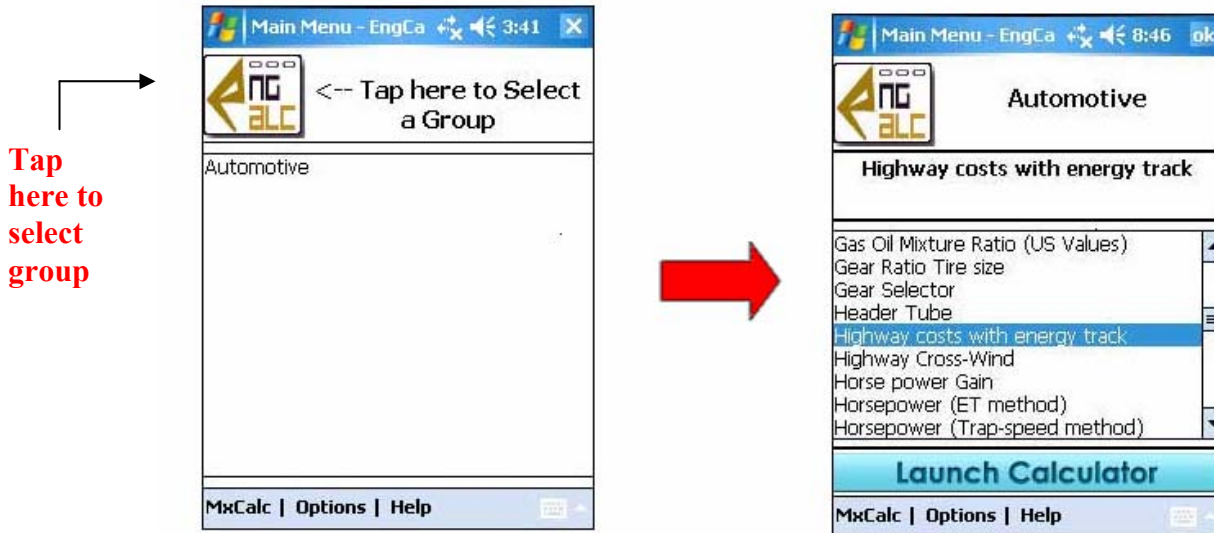
### Steps to Uninstall EngCalc (Automotive) program.

To remove the product from your Pocket PC:

- Go to **Start menu >> Settings**
- Select **System** Tab and tap on **Remove Programs**
- Select EngCalcAuto from the list and tap on the Remove button
- Choose **"Yes"** to confirm removing

## 2. Application Overview

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### How to Start

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- To start with you need to select the group from the list of Groups. This will become the default group to be loaded on program startup.
- As shown in the above figure tap the button shown to select the group.



- Select a Group from the list. (E.g. In the above figure Automotive is selected.)
- After that select the calculator (E.g. after selecting Automotive group, Highway costs with energy track calculator is selected.)
- Tap on Launch Calculator.

**Launch Calculator**

- The calculator consists of Inputs and Outputs. After entering the values in all the Inputs (**Mandatory**) tap **Calc** button.
- To load the MxCalc SE program select 'MxCalc' from the Menu.
- Options module helps you to customize Properties, Units, Calculator(s), and Group(s) by making them visible or hidden thereby saving the load time.
- To add a New Property, go to Options->New.

## 2.1 List of Calculators

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### Automotive

Airflow Alternate Depression  
CFM of Carburetor (Displacement in<sup>3</sup>)  
Circle Surface Area  
Coil Spring Rate  
Cone Surface Area  
Coolant Percentage  
Coolant Volume  
Crawl Ratio  
Crawl Speed  
Cube Surface Area  
Cylinder Surface Area  
Dew Point And Relative Humidity  
Differential Gear Ratio  
Drag Performance  
Dyno Correction  
Ellipse Surface Area  
Engine Compression Distance  
Engine Compression Ratio  
Engine RPM1  
Engine RPM2  
Engine Size  
Engine Size and Compression  
Fuel Consumption  
Fuel Estimation per Capacity  
Fuel Injector Flow  
Fuel Required For Trip  
Gas Oil Mixture Ratio (Metric Values)  
Gas Oil Mixture Ratio (US Values)  
Gear Ratio Tire size  
Gear Selector  
Header Tube  
Highway costs with energy track  
Horse power Gain  
Horsepower (ET method)  
Horsepower (Trap-speed method)  
Incline Downgrade Grade Percent  
Inlet Runner Area to Engine Size Match  
Irregular Triangle Surface Area  
Metric Grade Percent1  
Metric Grade Percent2  
Metric Vertical Climb Index  
Mileage Compensation  
MPH  
Oblong Cylindrical Tank Volume  
Octane Rating  
Optimum Runner Size  
Parabola Surface Area  
Parallelogram Surface Area

Peak Torque RPM Piston Speed Post Trip Fuel Remaining Potential Driving Time Potential Speed Propane Fumigation Pump Pounds Per Square Inch Pyramid Surface Area Ramp Travel Index (RTI) Rectangle Surface Area Rectangular Prism Surface Area Refrigerant Pressure Temperature Regular Polygon Surface Area Regular Triangle Surface Area Rhombus Surface Area RPM Speed Potential Sphere Surface Area Spring Rate for Indep. Suspension Spring rate for steel coil springs Square Surface Area Tire Height Total Fuel Weight Trapezoid Surface Area Two-Stroke Premix Ratio1 Two-Stroke Premix Ratio2 US Fuel Mileage Vehicle Stopping Distance Vertical Change Weight and Percentage Wheel And Tire Motion	
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## 2.2 To Start with Calculator Functions:

- The Calculator consists of Inputs and Outputs.
- For Ex: Name of the Calculator: Highway costs with energy track.

**Inputs:** Cars per day in one Direction, kWh energy usage for 100 km, Price for one kWh, Price for one kWh for electric car.

**Outputs:** Electric power on 100km, yearly wins from 1m highway

### Calculator Input

Cars per day in one direction	110
kWh energy usage for 100 km	150
Price for one kWh	100
Price for one kWh for electric car	200



### Calculator Output

Electric power on 100km	30000
Yearly wins from 1m highway	6026.625

- After entering values in the Inputs, Tap on **Calc** button at the bottom of the screen, the output will be displayed.
- Tap on the Output value to view the complete output at the top of the screen.
- Tap on **Save** to save the Calculation.
- Tap **clear** to clear values.
- Tap on **ok** to return to the main screen.

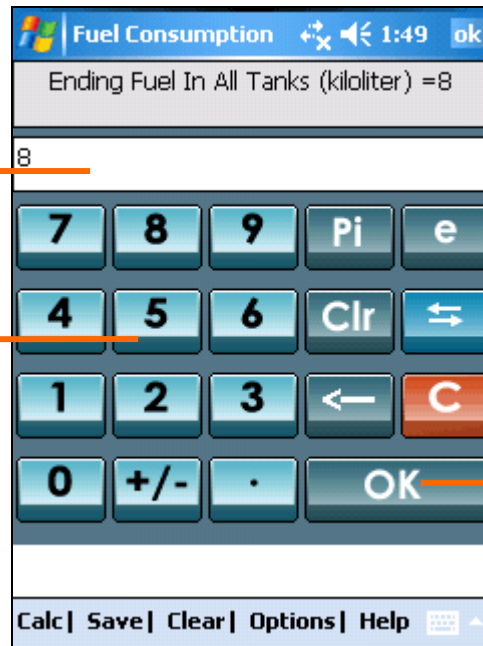
### 3. Input Panel: -

- Input Panel will pop-up as soon as you tap on the input Area. You can see the complete input at the top of the screen.
- It is used to enter values for inputs.
- Tap on any Input Box and tap on any number pad item to enter the data

**Input Box where you have to enter the values**

**Number Pad**

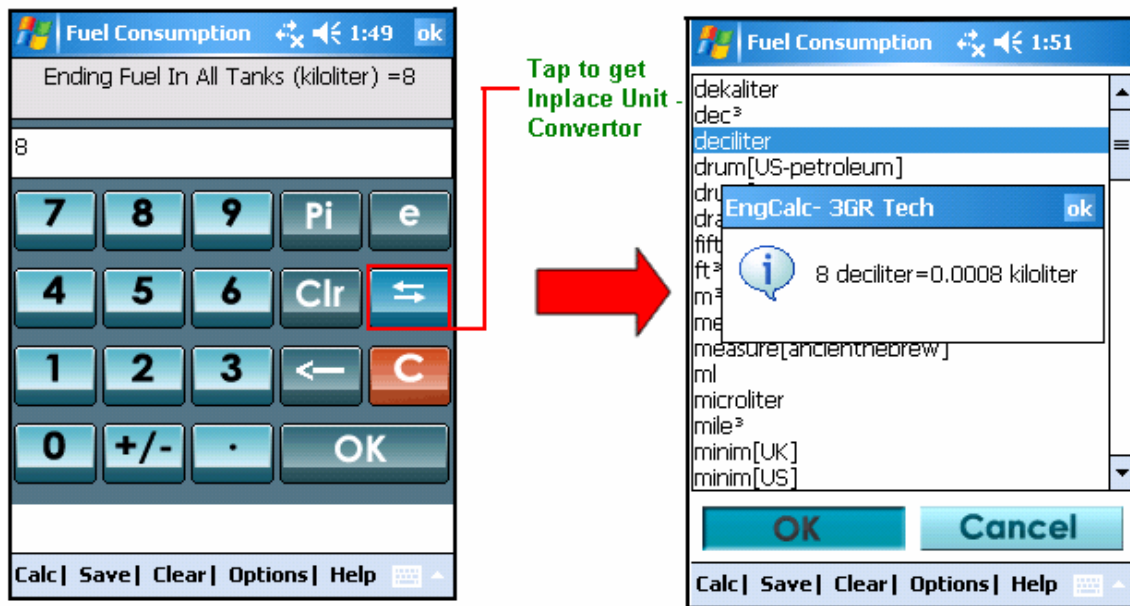
**Tap this button after entering the**



## 4. In-Place Unit Converter: -

You can now convert units with the help of In-Place unit converter utility which is strongly integrated with calculator in a manner by which you can enter the inputs in the Unit you have acquired the value. This is useful at the time of changing between US-Metric units. To select the Unit click on the small button next to each & every Input Box. Before tapping on the conversion button you will need to enter the value in the Inputs Box.

**For example if you have the acquired the value in Centimeters & the Inputs requires in Inches, in such case you need to select Centimeters from the list of Units that you see after tapping on the Conversion button.**



- If you want to calculate the input entered in the given textbox with another unit, Tap to get In-place Unit Converter as shown in the figure.
- After clicking In-Place Unit Converter you will get the screen as above.
- Select the unit in which you want to convert.

## 5. Preferences:-

### 5.1 Customize

#### You can hide the Groups or properties.

- Select an option from top of the screen. Selecting a Group or Property will display the Formulas or Units respectively
- Select items from the list (**multiple selection supported**) and then tap on '->' Button to hide or '<- ' Button to show. Tapping on '=>' Button will make all the items in the Left list Hidden and tapping on '<=' Button will make all the items in the Right list Visible

#### **Note: Properties and Groups marked, as Hidden will not be displayed in the List**

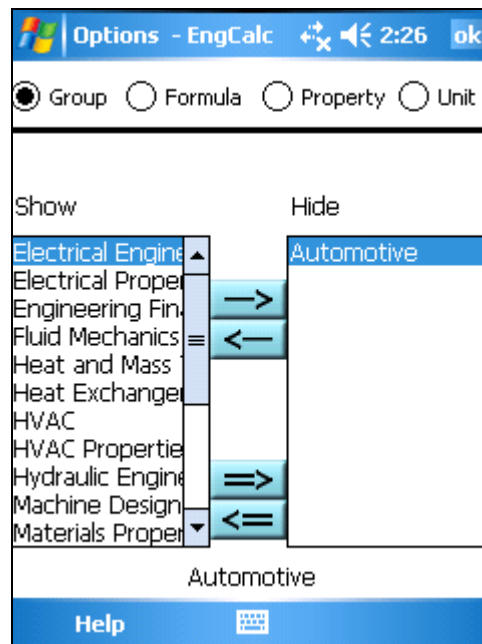
The options module allows you to hide/show items in the list of Groups, Properties, and Formulas & Units. The items which are very rarely used can be hidden. Those items which are marked as hidden are not populated in the list and hence making the list short and easy to scroll.

#### Following are the steps for Hiding/Showing any Group or Property:-

- Select an option from Menu. This will load the lists with visible items (**left**) and Hidden items (**right**).
- Select items from the list (**multiple selection supported**) and then tap on '->' Button to hide or '<- ' Button to show. Tapping on '=>' Button will make all the items in the Left list Hidden and tapping on '<=' Button will make all the items in the Right list Visible

#### Following are the steps for Hiding/Showing any Formula or Unit:-

- Select an option from Menu. Selecting a Group or Property will display the Formulas or Units respectively.
- Select items from the list (**multiple selection supported**) and then tap on '->' Button to hide or '<- ' Button to show. Tapping on '=>' Button will make all the items in the Left list Hidden and tapping on '<=' Button will make all the items in the Right list Visible

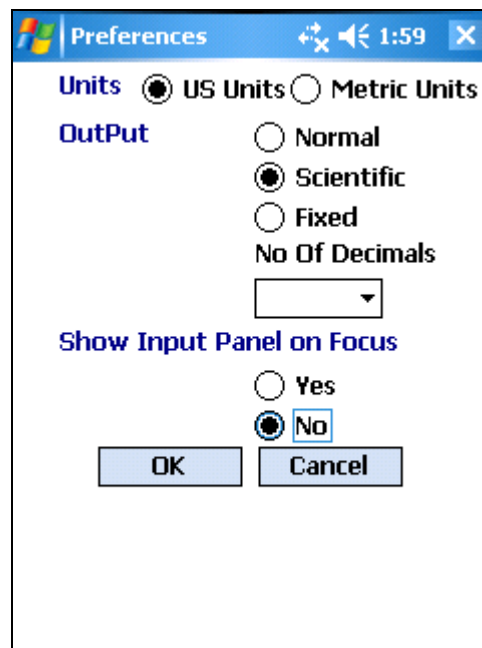
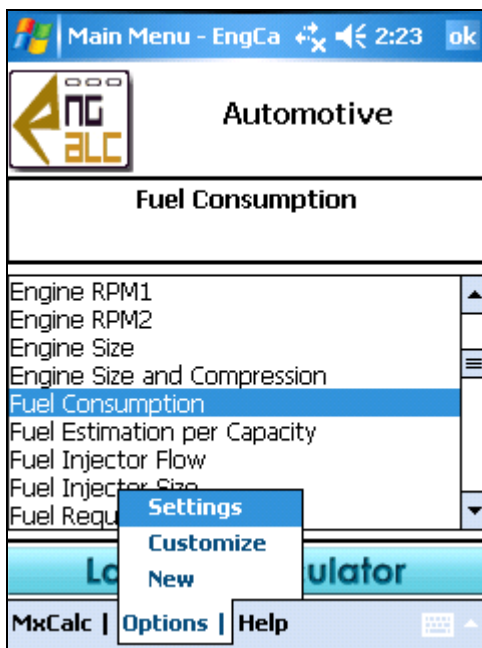


#### **Note: Properties and Groups marked as Hidden will not be displayed in the List.**

## 5.2 Settings

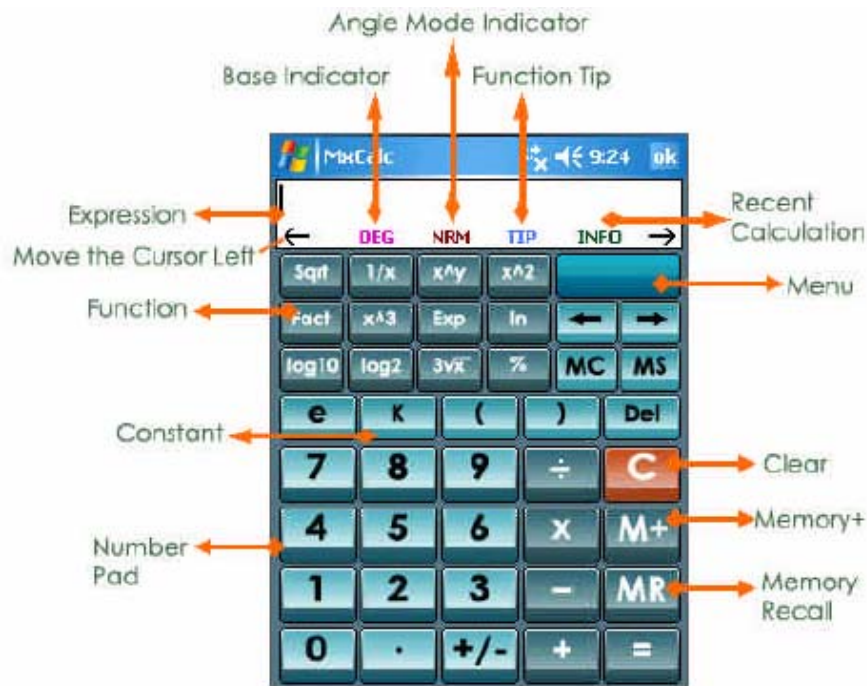
Two settings are there.

1. Us Unit.
2. Metric Unit.
  - Select US or Metric unit standard. This will become the units standard across all the calculators.
  - You can also change the units from the calculator with the help of In-Place unit conversion which is discussed in this document as a separate topic.
  - You can set the output to Normal, Scientific or Fixed mode.
  - You can set the No. Of Decimals.
  - Also you can show or hide the Input Panel on Focus

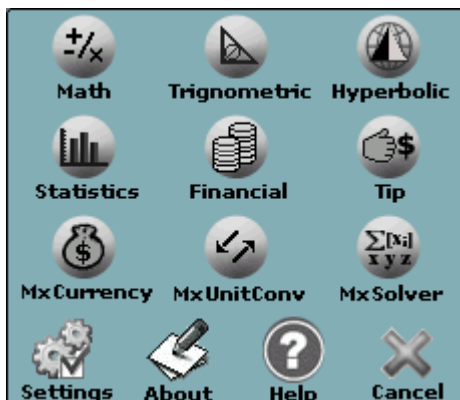


## 6. MxCalc

- Tap on the MxCalc button on the Main Menu screen to launch the Scientific Evaluator and Unit Converter.
- The different Calculation Modes are Degree mode, Radians mode and Grade mode.
- Tap on Functions Menu and it will display the list of Mathematic Category, Trigonometric Category, Hyperbolic Category and Inverse Hyperbolic category.



### Main Menu

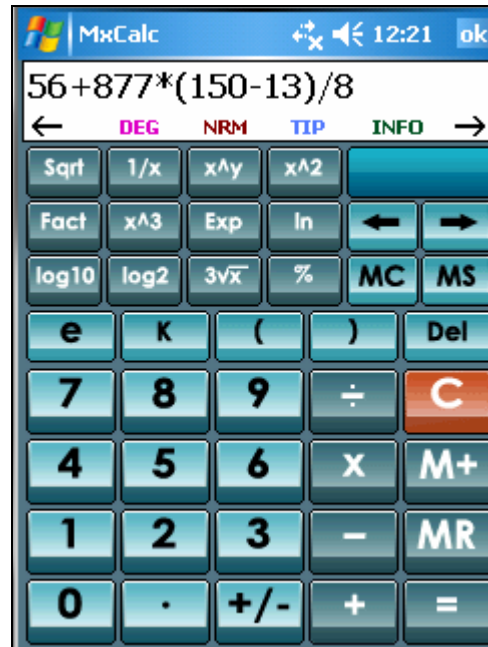


1. Mathematical Functions
2. Trigonometric Functions
3. Hyperbolic Functions
4. Statistic Functions
5. Financial Functions
6. Tip Calculator
7. Currency Converter
8. Unit Converter
9. Equation Solver
10. Settings
11. About
12. Help
13. Cancel

## Supported Functions:

### 6.1 Mathematical Functions:

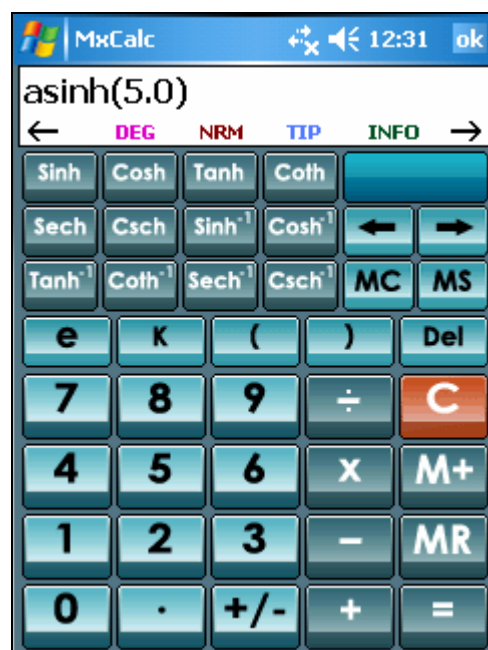
1. **ln** - Returns the logarithm of a number to the natural base 'e'.
2. **log10** - Returns the logarithm of a number to the base 10.
3. **log2** - Returns the logarithm of a number to the base 2.
4. **abs** - Returns the absolute value of a number. The absolute value of a number is the number without its sign.
5. **e[x]** - Returns e raised to the power of number. The constant e equals 2.71828182845904, the base of the natural logarithm. To calculate powers of other bases use the exponentiation operator (^). EXP is the inverse of log, the natural logarithm of number.).
6. **x^2** - Returns the square of a number.
7. **x^3** - Returns the cube of a number.
8. **x^1/3** - Returns the cube root of a number.
9. **1/x** - Returns the inverse of a no.
10. **1/x^2** - Returns the inverse of square of the number.



### 6.2 Trigonometric Functions



### 6.3 Hyperbolic Functions



**Trigonometric Functions:**

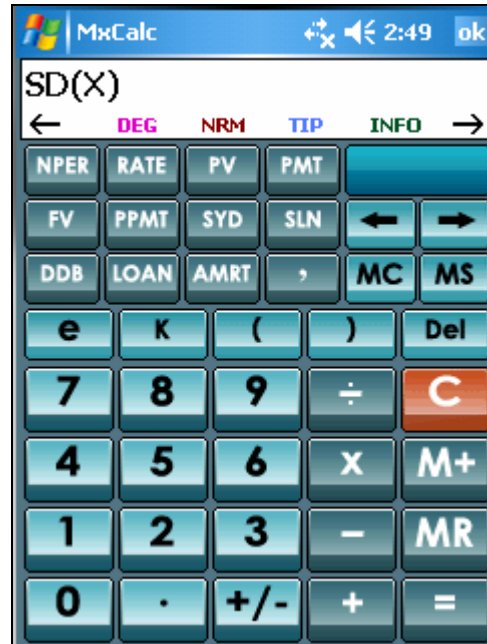
1. **Sin** - Returns the sine of the given angle.
2. **Cos** - Returns the cosine of the given angle
3. **Tan** - Returns the tangent of the given angle.
4. **Cot** - Returns the cotangent of the given angle.
5. **Sec** - Returns the secant of the given angle.
6. **Cosec** - Returns the cosecant of the given angle.
7. **Sin<sup>-1</sup>** Returns the arcsine of the given number.
8. **Cos<sup>-1</sup>** - Returns the inverse of cosine of any real number. Number must be Greater than or equal to 1
9. **Tan<sup>-1</sup>** - Returns the arctangent of a number. The arctangent is the angle whose tangent is number.
10. **Cot<sup>-1</sup>** - Returns the arc cotangent of a number.
11. **Sec<sup>-1</sup>** - Returns the arc secant of the given angle.
12. **Csc<sup>-1</sup>**- Returns the arc cosecant of the given angle.

**Hyperbolic Functions:**

1. **Sinh** - Returns the hyperbolic sine of a real number.
2. **Cosh** - Returns the hyperbolic cosine of a real number
3. **Tanh** - Returns the hyperbolic tangent of a real number
4. **Sech**- Returns the hyperbolic secant of the given angle.
5. **Csch** - Returns the hyperbolic cosecant of the given angle.
6. **Coth**-Returns the cotangent of the given
7. **Sinh<sup>-1</sup>**- Returns the inverse hyperbolic sine of a real number.
8. **Cosh<sup>-1</sup>** - Returns the inverse hyperbolic cosine of a number. Number must be greater than or equal to 1.
9. **Tanh<sup>-1</sup>** - Returns the inverse hyperbolic tangent of a number. Number must be between - 1 and 1 (excluding - 1 and 1).
10. **Coth<sup>-1</sup>** - Returns the arc cotangent of a number.
11. **Sech<sup>-1</sup>** - Returns the arc secant of the given angle
12. **Csch<sup>-1</sup>** - Returns the arc cosecant of the given angle.

## 6.4 Financial Functions:

1. **NPER** - Calculates number of periods of an investment based on periodic constant payments and a constant interest rate.
2. **RATE** The annual interest rate.
3. **PV** The present value
4. **FV** The future value
5. **PMT** The payment made each period
6. **FV** - Future Value.
7. **PPMT** - Calculates the principal payment for a given period of an annuity based on periodic fixed payments and a fixed interest rate.
8. **SYD** - Calculates the sum-of-years digits depreciation of an asset for a specified period.
9. **SLN** - Straight-line depreciation.
10. **DDB** -Double-declining-balance depreciation method.




### 6.4.1 Loan

Mth	Bal	Towards	PrinciPd
1	1988.45	11.55	11.55
2	1976.83	23.17	11.62
3	1965.14	34.86	11.69
4	1953.38	46.62	11.76
5	1941.55	58.45	11.83
6	1929.66	70.34	11.89
7	1917.7	82.3	11.96
8	1905.67	94.33	12.03
9	1893.57	106.43	12.1
10	1881.4	118.6	12.17

Monthly Payment	23.22
Total Interest	786.75

Calculate | Clear | Back |

- Launch Loan module by tapping **Loan** button  in **Finance module**.
- After entering all inputs, tap on Calculate button as shown in Fig (a).

#### Functions:


- **Principal** – Principal amount
- **Interest Rate** - Interest rate in percent
- **No. Of years** – Number of years.
- **Mth**- Month
- **Bal** - Balance
- **TowardsPrinci** – Towards Principal
- **PrinciPd**- Principal paid
- **IntPd**- Interest Paid

## 6.4.2 Amortization

#	IntRate	LoanAm	Paymen
1	0.08	29197.28	2343.32
2	0.08	28331.95	2343.32
3	0.08	27399.13	2343.32
4	0.08	26393.55	2343.32
5	0.08	25309.53	2343.32
6	0.08	24140.95	2343.32
7	0.08	22881.23	2343.32
8	0.08	21523.25	2343.32
9	0.08	20059.35	2343.32
10	0.08	18481.26	2343.32
11	0.08	16780.08	2343.32
12	0.08	14946.81	2343.32
13	0.08	12971.54	2343.32
14	0.08	10844.26	2343.32
15	0.08	8564.97	2343.32
16	0.08	6133.67	2343.32
17	0.08	3550.36	2343.32
18	0.08	825.04	2343.32
19	0.08	-1118.28	2343.32
20	0.08	-3269.60	2343.32

Int Saved 153718.615057169

Calculate | Clear | Back |

- Launch Amort module by tapping **AMRT** button  in **Finance module**.

- Enter all the mandatory Inputs.
- Then tap on **Calculate**.

### Functions:

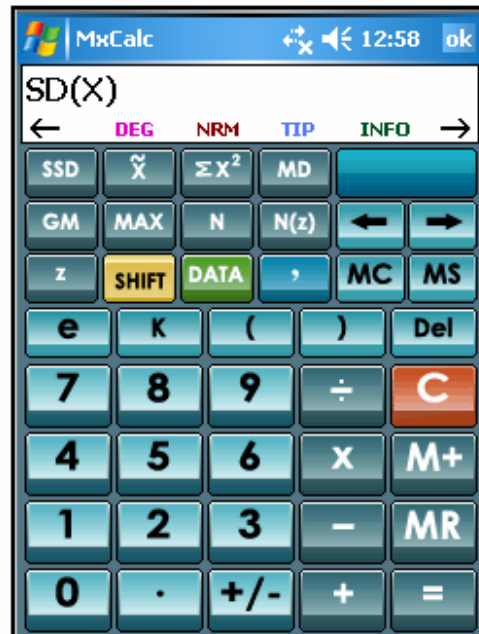
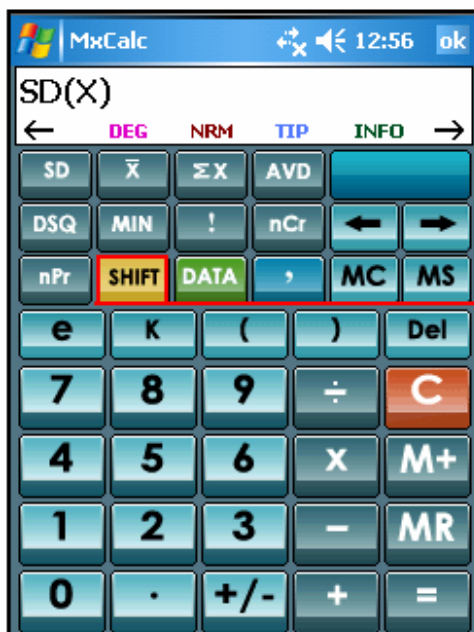
- **Loan amt:** Loan Amount
- **Term:** # of years
- **Periods:** It can be weekly, bi- weekly, 2/month, monthly, Quarterly, 2/year or yearly. E.g. Enter 12 in case of months and 4 in case of quarterly payments.
- **APR:** Annual Percentage Rate
- **Escrow:** Money placed with a third party for safekeeping either for final closing on a property or for payment of taxes and insurance throughout the year, an item of value, money, or documents deposited with a third party to be delivered upon the fulfillment of a condition. For example, the earnest money deposit is put into escrow until delivered to the seller when the transaction is closed.
- **Princi:** You can choose to add extra principal payments.

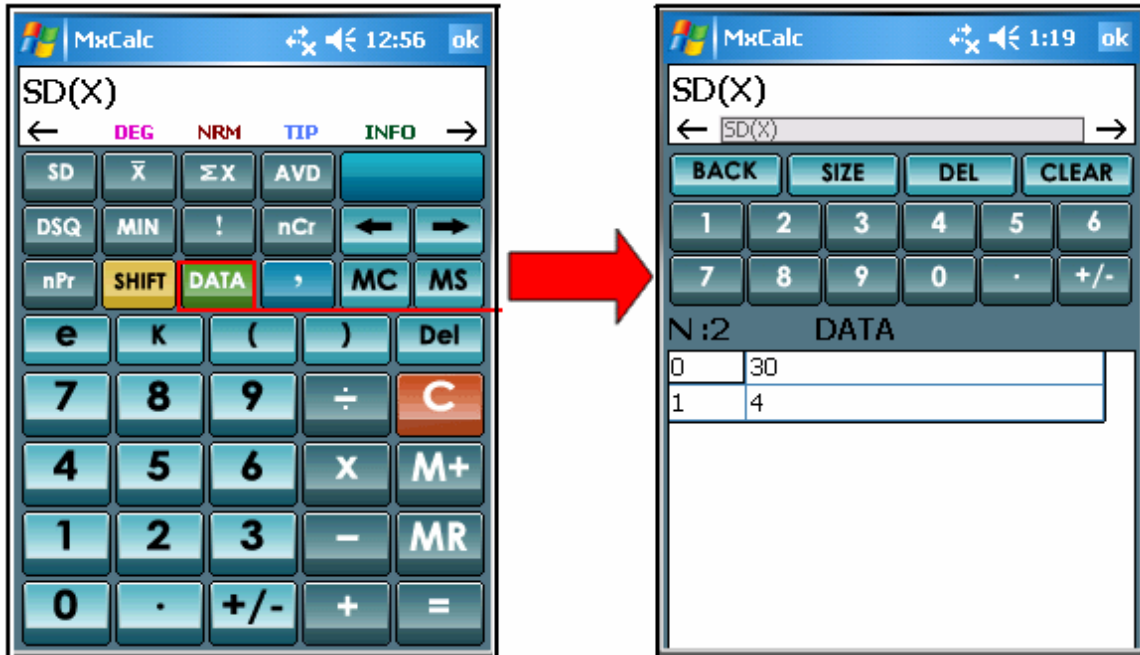
After tapping on Calculate it will show the details of the amortization.

## 6.5 Statistic Functions:

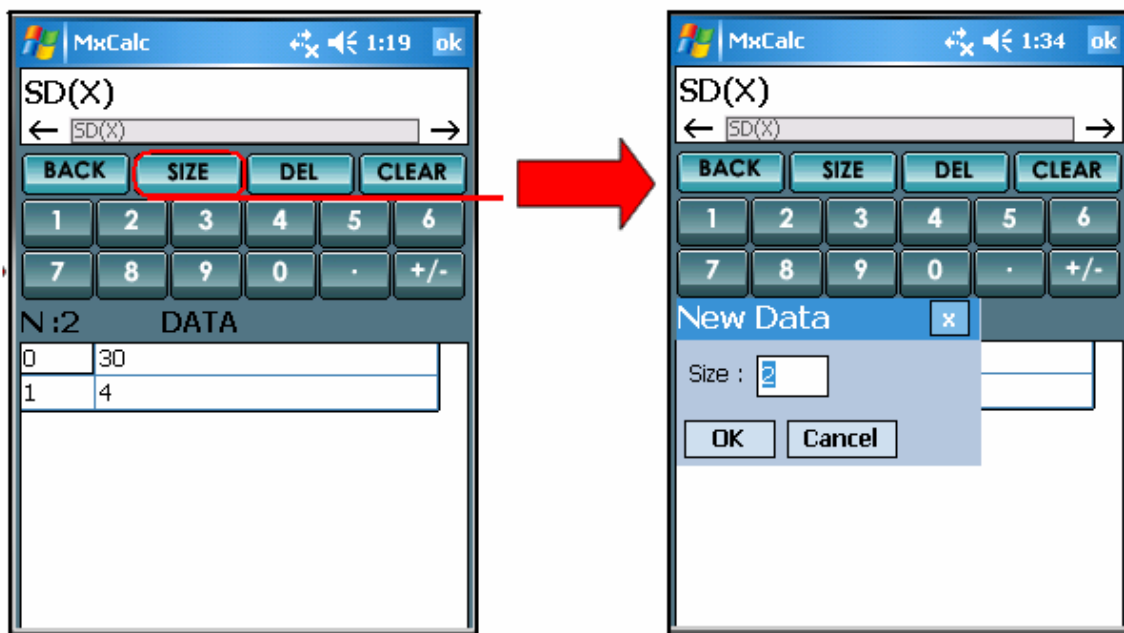


1. **SD**: Standard deviation.
2. **Mean**: The mean (arithmetic average) of all the values of data.
3. **Sum X**: the sum of all the values of data.
4. **AVD**: the average of the absolute deviations of all the values of data.
5. **DSQ**: the sum of squares of deviations of all the values of data
6. **MIN**: the minimum of all the values of data.
7. **!** Computes the Factorial
8. **nCr**: Compute the number of combination.
9. **SSD**: Sample standard deviation.
10. **Median**: The median of (the number in the middle) all the values of data.
11. **Sum X<sup>2</sup>**: the sum of the squares of all the values of data.
12. **MD**: the most frequently occurring, or repetitive, value in all the values of data.
13. **GM**: Geometric mean
14. **MAX**: Maximum of all the values.
15. **N**: Total number of values of data.
16. **N(z)**: Standard normal cumulative distribution.
17. **z**: Inverse of Standard normal cumulative distribution





### Size Button:



## 6.6 MxCurrency:

USD	EUR	JPY
1	0.831	118.878
20	16.62	2377.56
40	33.24	4755.12
61	50.691	7251.558

USD 0.831 EUR 118.878 JPY

Update Clear Delete

1 2 3 4 5 6  
7 8 9 0 . +/-

Update the currency database

Summation of all value

Clear

- The multi-currency & multi value currency converter allows you to convert the values from one Currency to 2 other currencies at the same time also multiple values.
- It also displays the factor of the currencies converted to.
- Tap on the symbol to change the currency selected

## 6.7 Tip Calculator

- Enter no. of Parameters.
- After that put no. of person and amount.

TIP(10,2,200000)

← 1 tip(no of person,percent,amount)

Tip Amount

4000

Total/Person

20400

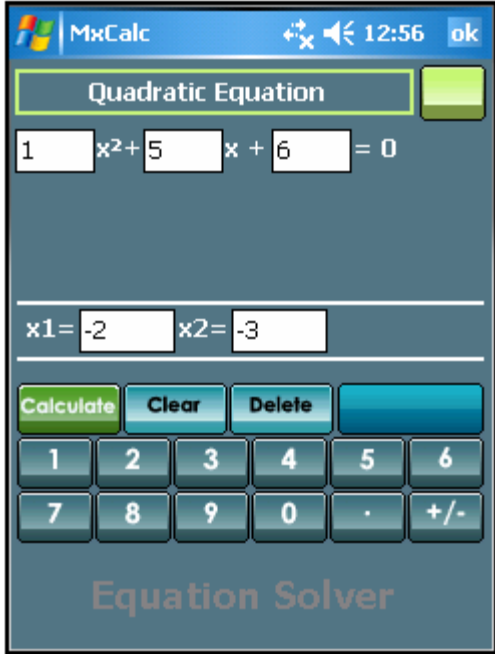
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7 8 9 ÷ C  
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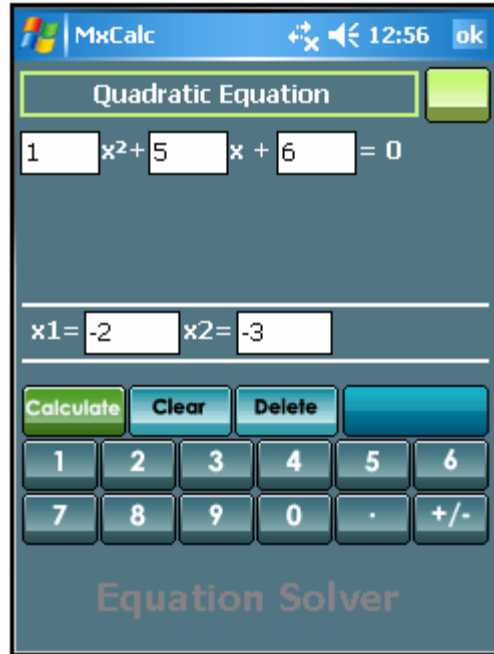
parameters / Inputs

Tip Amount

Total per person

## 6.8 MxSolver

- MxSolver solves Quadratic Equations, Quadratic Simultaneous Equations, and Cubic Simultaneous Equations.
- Tap on a button shown in the figure . Select the category.
- Enter the Values. You will get the roots of the equation.



## 6.9 MxUnitConv:

### Following are the steps for Converting Values: -

This module of unit converter offers a very comprehensive collection of properties with respective units. A very useful utility to Convert Values from one unit to another.

- Choose a property from the list
- Enter the value and choose a unit from the '**From Value**'
- Choose a unit from the '**To Value**' and click Calculate to see the conversion.
- If any constants are available for the physical property, they show up in the
- Constants list.



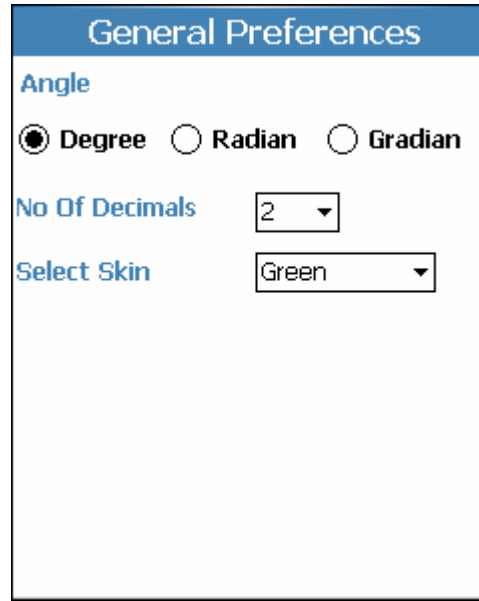
### 6.9.1 List of Properties.

<p> <b>Absolute Zero</b>  <b>Acceleration ( Angular )</b>  <b>Acceleration ( Linear )</b>  <b>Activation Energy</b>  <b>Angle</b>  <b>Angular Momentum</b>  <b>Area</b>  <b>Area per unit Volume</b>  <b>Boltzmann Constant</b>  <b>Charge / Mole</b>  <b>Concentration</b>  <b>Conductivity</b>  <b>Cost of Power</b>  <b>Cp</b>  <b>Cutting Tools</b>  <b>Data Rate</b>  <b>Data Storage</b>  <b>Density</b>  <b>Depth</b>  <b>Dimensionless</b>  <b>Displacement</b>  <b>Distance</b>  <b>Dynamic Fluidity (1/viscosity)</b>  <b>Electric Dipole Moment</b>  <b>Electric Field Strength</b>  <b>Electrical Capacitance</b>  <b>Electrical Charge</b>  <b>Electrical Conductivity</b>  <b>Electrical Current</b>  <b>Electrical Inductance</b>  <b>Electrical Potential</b>  <b>Electrical Resistance</b>  <b>Electrical Resistivity</b>  <b>Energy</b>  <b>Energy Flux</b>  <b>Energy per unit Area</b>  <b>Mass Per Unit Length</b>  <b>Mass Transfer Co-efficient</b>  <b>Molar Concentration</b>  <b>Molar FlowRate</b>  <b>Molar Heat Capacity</b>  <b>Molecular Weight</b>  <b>Moment of Inertia</b>  <b>Moment of Inertia ( Area )</b>  <b>Momentum</b>  <b>Momentum Flow Rate</b>  <b>Momentum Flux</b>  <b>Number</b>  <b>Permeability</b>  <b>Permeability Factor</b> </p>	<p> <b>Enthalpy</b>  <b>Feed</b>  <b>Feet of Pipe</b>  <b>Flow Rate( Mass )</b>  <b>Flow Rate( Volume )</b>  <b>Force</b>  <b>Force ( Body )</b>  <b>Force Per Unit Mass</b>  <b>Fouling Factor</b>  <b>Frequency</b>  <b>Fuel Efficiency</b>  <b>Geometric Displacement</b>  <b>Heat of Combustion</b>  <b>Heat of Fusion</b>  <b>Heat of Vaporisation</b>  <b>Heat Transfer Co-efficient</b>  <b>Height</b>  <b>Henry's Law Constant</b>  <b>Illuminance</b>  <b>Inductance</b>  <b>Integration Constant</b>  <b>Intensity of Ionising Radiation</b>  <b>Kinetic Energy of Turbulence</b>  <b>Length</b>  <b>Linear Momentum</b>  <b>Linear Thermal expansion coefficient</b>  <b>Luminance</b>  <b>Magnetic Field Strength</b>  <b>Magnetic Flux</b>  <b>Magnetic Flux Density</b>  <b>Magnetic Moment</b>  <b>Magnetomotive Force</b>  <b>Mass</b>  <b>Mass Density</b>  <b>Mass Flowrate</b>  <b>Mass Flux</b>  <b>Mass Per Unit Area</b>  <b>Viscosity ( Kinematic )</b>  <b>Voltage ( emf )</b>  <b>Voltage Ratio / Frequency</b>  <b>Volume</b>  <b>Volumetric Calorific Value</b>  <b>Volumetric Coefficient of Expansion</b>  <b>Volumetric Flow</b>  <b>Volumetric Mass Flowrate</b>  <b>Wave Number</b>  <b>Wavelength of max. Radiation Intensity</b>  <b>Width</b>  <b>Work</b> </p>
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<b>Photon Emission Rate</b> <b>Population</b> <b>Power</b> <b>Power / Unit Mass</b> <b>Power / Unit Volume</b> <b>Press Impulse</b> <b>Pressure</b> <b>Pressure Gradient</b> <b>Radioactive Dose</b> <b>Radioactive Exposure</b> <b>Radioactivity</b> <b>Rate of Expenditure</b> <b>Slope</b> <b>Solid Angle</b> <b>Specific Enthalpy</b> <b>Specific Gravity</b> <b>Specific Heat</b> <b>Specific Heat Capacity</b> <b>Specific Surface</b> <b>Specific Volume</b> <b>Speed</b> <b>Surface Tension</b> <b>Temperature Difference</b> <b>Thermal Conductance</b> <b>Thermal Conductivity</b> <b>Thermal Resistance</b> <b>Time</b> <b>Torque</b> <b>Total Head</b> <b>Turbulence Energy Dissipation Rate</b> <b>U Value</b> <b>Unit Power</b> <b>Velocity</b> <b>Velocity ( Angular )</b> <b>Velocity ( Linear )</b> <b>Viscosity ( Dynamic )</b> <b>Viscosity ( Kinematic )</b>	<b>Temperature (Boiling pt. At 1 atm)</b> <b>Torque Conversion</b> <b>Cooking</b> <b>Butter</b> <b>Metric Conversion for Length</b> <b>Mass(metric)</b> <b>flow rate (mole) conversion</b> <b>Electric Power</b> <b>Currency</b>
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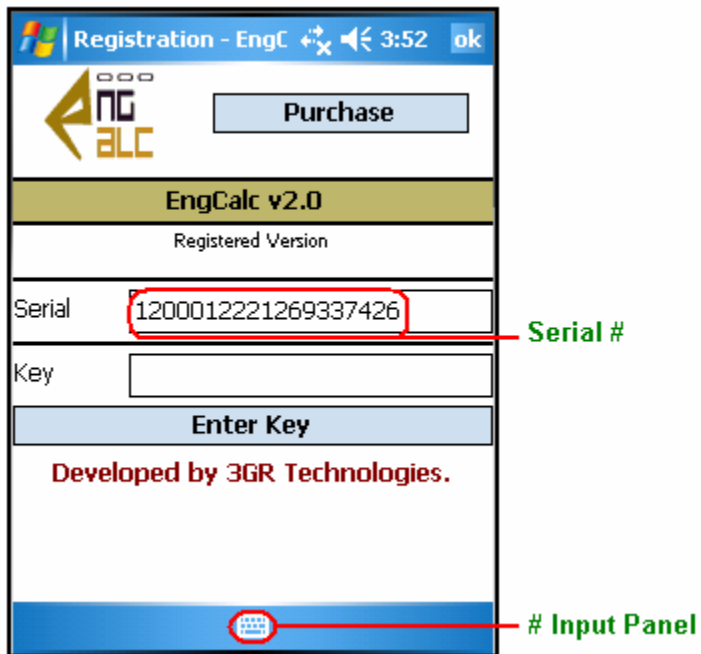
## 6.10 Settings

- Tap Settings option from the main menu.
- Set an angle among the three – Degree/Radian/Gradian.
- Select the value up to which you want to keep decimals.
- Select Skin from the combo box



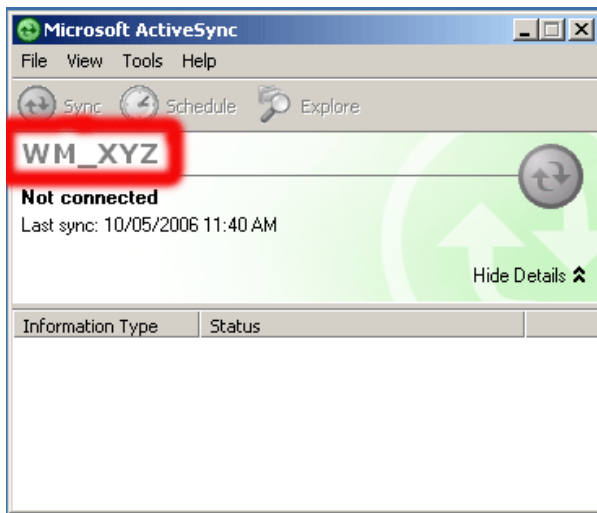
The screenshot shows a settings window titled "General Preferences" with a blue header. Below the header, the "Angle" section has three radio buttons: "Degree" (selected), "Radian", and "Gradian". The "No Of Decimals" section has a dropdown menu showing the value "2". The "Select Skin" section has a dropdown menu showing the value "Green".

## 7. How to Register.....



Trial version of EngCalc (Automotive) is available. You can use the trial this version up to 15 uses. After that you will have to register the product. Registration process is simple.

- Tap on **Help** → **Register** in menu
- Enter Serial number.
- Enter key using input panel.
- Tap 'Enter Key' button.



- To register you will need the ActiveSync ID. You can locate the ActiveSync ID as shown below.
- In the example given 'WM\_XYZ' is the ActiveSync ID.
- Enter the serial # and tap on **Enter Key** button.