

# Graphing Calculator

39g+

**Description :** Graphing Calculator for maths students.

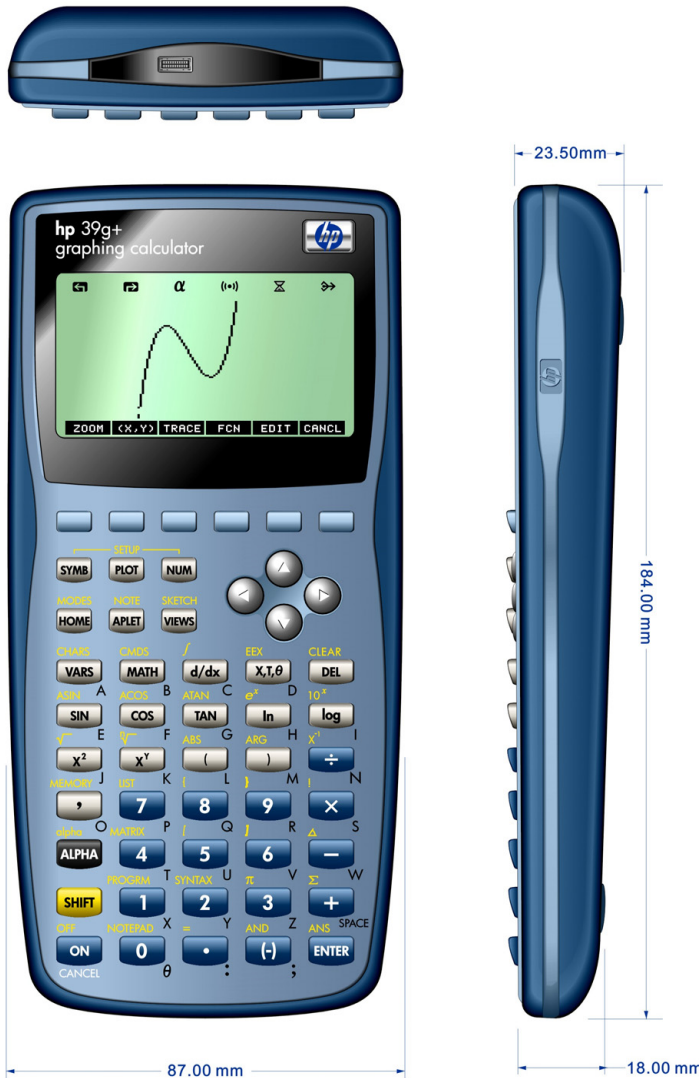


Figure : ID drawing

## Electronic Specification

### CPU :

75Mhz ARM9

### Display Size:

131 x 64 pixels

### Display type:

Pixel

### Memory :

RAM: 256 KB

### IR Port :

Irda

### Serial port :

USB

### Power Supply :

AAA x 3 + CR2032

### Battery life :

Pending

### Power consumption :

Pending

## Material Specification

### The Material of The Enclosure :

Plastic

### The Material of The Key Top :

Plastic

### Dimensions :

184.0 x 87.0 x 23.5 mm

### Weight :

Pending

## ■ Operating Features

- ◇ Entry Logic: Algebraic
- ◇ Menus, Prompts
- ◇ Alpha Messages
- ◇ Soft-keys
- ◇ Numeric precision –intermediate/internal:  
15 digits internal/rounded to 12 for display
- ◇ Displayed numerical precision: 12 digits,  
exponent: -499 to +499
- ◇ Internal numerical precision (intermediate):  
15 digit, exponent: -49999 to +49999
- ◇ Additional applications available on  
Internet

## ■ Configuration

- ◇ RAM: 256K
- ◇ Peripherals
- ◇ Supports Aplets

## ■ Vector and matrix operations

- ◇ Matrix additions, subtraction, division,  
multiplication and inverse
- ◇ Matrix editor

## ■ Graphing Features

- ◇ 2-D Function, Polar, Parametric Plot
- ◇ Sequence; cobweb, Stairstep Plot
- ◇ Plot/Table Screen, Box Whisker Plot
- ◇ Histogram, Scatter Plot
- ◇ Find: Intersect, Extremum, Slope, Area
- ◇ Zoom, Trace, Co-ordinates, Shade

## ■ Math Features

- ◇  $+$ ,  $-$ ,  $x$ ,  $\sqrt{\quad}$ ,  $1/x$ ,  $+/-$ ,  $\ln$ ,  $e^x$ ,  $\sqrt[y]{\quad}$
- ◇  $y^x$ ,  $\text{LOG}$ ,  $10^x$ ,  $x^2$ ,  $\%$ ,  $\pi$ ,  $n!$
- ◇ Fractions
- ◇ Degrees, radians, or grads mode
- ◇ Trigonometric functions/ inverses
- ◇ Hyperbolics/inverses
- ◇ HP Solve application (root finder)
- ◇ Numeric Integration

- ◇ Symbolic Integration (simple cases)
- ◇ Numeric differentiation
- ◇ Symbolic differentiation (simple cases)
- ◇ Complex number functions
- ◇ Polynomial root finder, Taylor series
- ◇ Absolute value, round
- ◇ Integer & fractional part of a number
- ◇ Modulo function, floor, ceiling

## ■ Scientific Features

- ◇ Decimal hrs/hrs min sec conversions
- ◇ Polar/rectangular conversions
- ◇ Angle conversions

## ■ Statistical Features

- ◇  $\Sigma x$ ,  $\Sigma x^2$ ,  $\Sigma y$ ,  $\Sigma y^2$ ,  $\Sigma xy$
- ◇ Sample standard deviation, mean
- ◇ Population standard deviation
- ◇ Linear regression
- ◇ Combinations, permutations
- ◇ Weighed mean
- ◇ Edit, save, name, list
- ◇ Curve fit ( LIN, LOG, EXP, POW )
- ◇ Plot statistical data
- ◇ Hypothesis Tests
- ◇ Confidence Intervals

## ■ Programming Features

- ◇ Root finder: HP Solve
- ◇ Number of steps/regs or bytes: 128KB
- ◇ Number of Programs/formulae: ++
- ◇ Levels of subroutines: ++
- ◇ Branching
- ◇ Alpha prompts in programs
- ◇ Input forms, alpha string manipulation
- ◇ Index looping
- ◇ Alpha listing