

HP 48Gii scientific calculator

With its 128KB memory (80.7KB available to the user), 48MHz ARM processor and structured programming for creating applications, the HP 48Gii keeps reliable, high-level assistance at hand for demanding engineering and surveying applications. Customize your input by choosing familiar textbook, traditional algebraic or efficient RPN entry modes. View 3D graphs and 2-and 3-D plots and other functions with ease on the comfortably-sized display.

- Connect to a PC using the cable and software that are included. Uses conventional RS232 COM port at 115200 baud
- IrDA port allows the 48Gii to communicate with another HP48Gii, or HP49G+ calculator at high speed
- 3D graphing functions with interactive graphics

Operating Features

- Entry logic: algebraic/RPN/textbook
- Menus, prompts
- Alpha messages
- Soft-keys
- Numeric precision - intermediate/internal: 15 internal/12 display/infinite precision for integers
- Displayed numerical precision: 12 digits, exponent: -499 to +499
- Internal numerical precision (intermediate): 15 digit, exponent: -49999 to +49999

Graphing Features

- 2-D Function, Polar, Parametric Plot
- 3-D, Differential Equation, Bar Plot
- Histogram, Scatter Plot
- Find: Intersect, Extremum, Slope, Area
- Zoom, Trace, Co-ordinates, Shade

Math Features

- +, -, x, ÷, √, 1/x, +/-, In, e^x, ^x√y
- y^x, LOG, 10^x, x², %, n, 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 of functions
- Polynomial root finder, Taylor series
- Absolute value, round
- Integer, & fractional part of a number
- Modulo function, floor, ceiling
- CAS (Computer Algebra System)

Scientific features

- Decimal hrs/hrs min sec conversions
- Polar/rectangular conversions
- Angle conversions
- Base conversions and arithmetic
- Unit conversions

- Bit, Boolean graphics
- Display and printer graphics
- Onboard library with more than 180 scientific and engineering constants and units

Statistical Features

- Σx , Σx^2 , Σy , Σy^2 , Σxy
- Sample standard deviation, mean
- Population standard deviation
- Linear regression
- Combinations, permutations
- Weighted 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: 128 KB
- Number of Programs/formulae: ++
- Levels of subroutines: ++
- Branching
- Flags: 256
- Alpha prompts in programs
- Input forms, alpha string manipulation
- Indirect addressing
- Index looping

Electrical

- CPU: 48Mhz ARM9
- Display Size: 131 x 64 pixels
- Display type: Pixel
- Memory: 128KB (80.7KB user)
- IR Port : IrDA
- Serial port: RS232
- Power Supply: AAA x 3 + CR2032
- Auto power OFF: approximately 5 minutes

Dimensions

- Size: 184.0 x 87.0 x 23.5 mm
- Unit weight: 220 gram

