The Hewlett-Packard HP-35 Scientific Pocket Calculator

The HP-35 provides a unique combination of advanced mathematical capability plus shirt-pocket portability – and it's as easy to use as an adding machine.

When Hewlett-Packard introduced the HP-35 scientific pocket calculator in January, 1972, it marked the first major advance in personal computing instruments since the slide rule was invented a century ago. Today, the HP-35 has become an indispensable aid to thousands of engineers and scientists throughout the world.

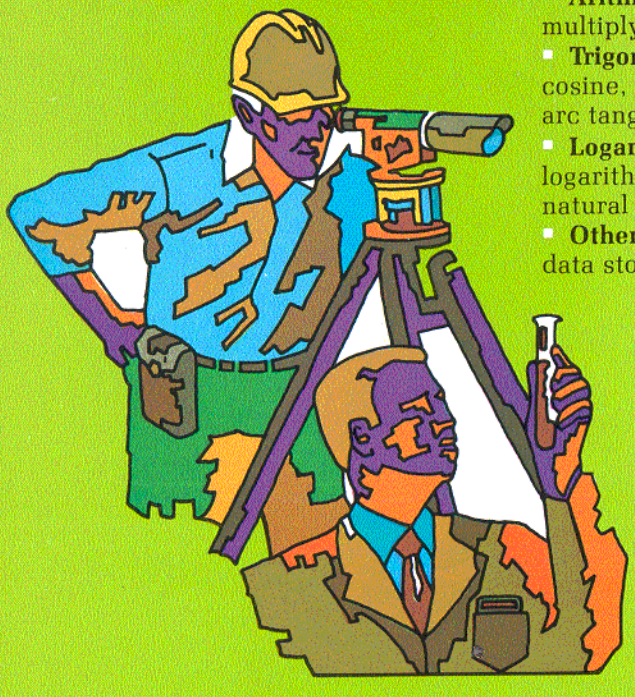
Like a slide rule, the HP-35 gives you answers where they're needed: at your desk, in a meeting, at home, in a plane, in a hotel room, at a remote project site—anywhere in the world.

But beyond this portable convenience is the extraordinary computational power the HP-35 puts at your fingertips. It performs logarithmic, trigonometric and other mathematical functions with single keystrokes and eliminates the need to refer to log or trig tables. It displays up to 10 significant digits and automatically positions the decimal point throughout its 200-decade calculating range (10^{-99} to 10^{99}).

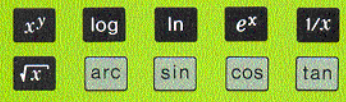
Four-register memory stack stores intermediate answers.

An important feature of the HP-35 is the four-register operational memory stack which lets you automatically store and retrieve intermediate answers while performing complex calculations. Stack control keys permit roll-down of any entry to the display for review or further processing. The operational stack, coupled with reverse Polish notation, provide the most efficient means known to computer science for evaluating mathematical expressions. Thus, there is seldom a need for scratch notes or the re-entry of intermediate solutions.

In addition, the HP-35 provides a separate, addressable memory register for selective storage and retrieval of constants or other data.



Computes transcendental functions 10 times faster than a slide rule.



For greater speed and versatility, the following specific functions are preprogrammed into the HP-35:

- **Arithmetic:** Add, subtract, multiply, divide and square root.
- **Trigonometric:** Sine, arc sine, cosine, arc cosine, tangent and arc tangent.
- **Logarithmic:** Common logarithm, natural logarithm, natural antilogarithm.
- **Other functions:** x^y, $1/x$, π, data storage and positioning keys.

Using the HP-35's pre-programmed capabilities, you can solve these and other functions, such as squares, nth roots, and common antilogarithms, 10 times faster than with a slide rule. Press a few keys and see your answer displayed with an accuracy of up to 10 significant digits—a level of precision which exceeds that to which most physical constants of the universe are known.

Lets you enter data in either fixed or scientific notation.

With the HP-35, you can enter data in either fixed or scientific notation. Answers larger than 10^{-2} and smaller than 10^{10} are displayed in fixed notation with the decimal point properly positioned. For values outside this range, answers are displayed in scientific notation, with the exponent of 10 (plus or minus) shown at the right of the display. In either case, insignificant trailing zeros are automatically blanked for easier reading. Negative numbers or exponents can be entered by pressing the CHS (change-sign) key after the last digit. Exponents are entered by pressing the EEX (enter-exponent) key.

Overflow and underflow are indicated by the HP-35's closest answers, $9.999999999 \times 10^{99}$ and zero respectively. Improper operations, such as taking the square root of a negative number, are indicated by a flashing display.

Careful human engineering assures convenient, reliable operation

The HP-35 features a bright, easy-to-read light-emitting diode display specially developed for this application by Hewlett-Packard's own opto-electronic design group. Since the displays are made from semi-conductor materials, they—like the large-scale integrated circuits used inside the HP-35—do not wear out with time.

The unique HP-35 keyboard has been carefully laid out for convenient fingertip operation. Because the keys are small and widely separated, there is less chance of misentering data by striking two keys simultaneously. Moreover, each key has a "breakaway" or "overcenter" touch similar to the key action for a high-quality electric typewriter to give a positive indication that contact has been made.

Finally, the compact, contoured HP-35 case represents a breakthrough in modern packaging techniques. Small enough to fit in a shirt pocket, rugged enough to withstand substantial punishment in field use, the case gives the HP-35 a comfortable "feel" and makes the calculator even more convenient to use.

HP-35 The first pocket calculator designed to fit the needs of today's engineering/scientific world.

Easy-to-read LED display gives answers with accuracy of up to 10 significant digits. Decimal point is automatically positioned. Numbers smaller than 10^{-2} and larger than 10^{10} are displayed in scientific notation, with the exponent of 10 (plus or minus) shown at the extreme right.

Pre-programmed functions let you perform log, trig and exponential calculations 10 times faster than with a slide rule.

Operates on battery or AC-line power.
The HP-35 comes with a rechargeable nickel-cadmium battery pack which provides enough power for three to five hours of continuous operation. Impending battery depletion is indicated by the lighting of all decimal points in the display.

AC-line operation (115 or 230 volts) and simultaneous battery charging are accomplished by simply plugging in the battery charger supplied with the HP-35.

Shown actual size.

Compact, rugged case fits easily into shirt pocket or briefcase.

Four-register, operational memory-stack automatically stores and retrieves intermediate solutions during complex calculations, eliminates need for scratch notes and re-entry of data. Data manipulation keys allow contents of any register to be displayed for review. A separate, addressable memory register is also provided for storage and retrieval of constants.

Try it for 15 days
Shirt-pocket test the powerful HP-35 scientific pocket calculator for 15 days to see how much time and money it can save you. To take advantage of this offer, or obtain information on the complete line of HP pocket and desktop calculators, contact your local HP sales office. Or, write us at the address shown on the back page of this brochure.

HP-35 Scientific Pocket Calculator General Specifications

Functions:

- Add
- Subtract
- Multiply
- Divide
- Square root
- Sine
- Arc sine
- Cosine
- Arc cosine
- Tangent
- Arc tangent
- Common logarithm
- Natural logarithm
- Natural antilogarithm
- Exponentiation
- Reciprocal

Power

AC: 115 or 230 V ± 10%; 50 to 60 Hz; 5 watts.

Battery: 500 mW derived from nickel-cadmium rechargeable battery pack.

Weight

Calculator: 9 ounces (255 grams)
Recharger: 5 ounces (142 grams)
Shipping Weight: approx. 2 lbs (900 grams)

Dimensions

Length: 5.8 inches (14.7 cm)
Width: 3.2 inches (8.1 cm)
Height: 0.7 to 1.3 inches (1.8 to 3.3 cm)

Temperature Operating Range

32°F to 122°F (0° to 50°C)

Accessories Included

- AC Adapter and battery recharger (115/230VAC).
- Soft case with belt loop
- Safety travel case of molded plastic, which holds both calculator and recharger and is compact enough to fit most standard attache cases.
- Self-adhesive owner name tags
- Operating Manual

Optional Accessories (Details sent with HP-35)

- Security Cradle
- Field Case
- Spare Battery Pack and Holder

Warranty

Hewlett-Packard pocket calculator products are warranted against defects in materials and workmanship. This warranty applies for one (1) year from the date of delivery. We will repair or replace components which prove to be defective during the warranty period, provided that the defective units are returned to Hewlett-Packard. No other warranty is expressed or implied. We are not liable for consequential damage.

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Sales, service and support in 172 centers in 65 countries
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