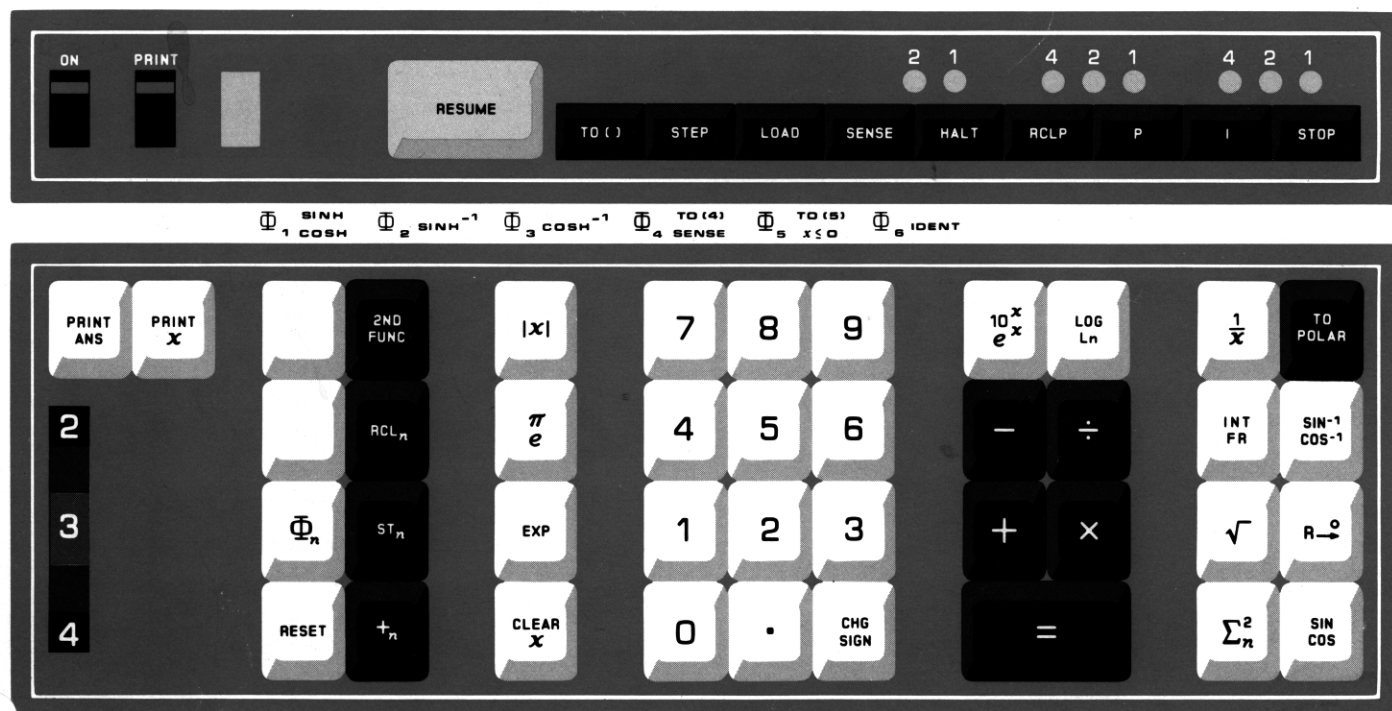# The Compucorp 025 Educator.

A programmable printing calculator especially designed to simplify the teaching and learning of general mathematics, trigonometrics, statistics, and computer techniques.

The Educator brings to the classroom the very latest advancements in electronics and computer technology. Its keyboard power and programming capacity relieve teacher and student of time-consuming computations and tedious repetitive operations.

One or two keystrokes will compute most intermediate equation values. Single program instructions will cause the machine to execute elaborate routines which require many instructions on other programmable calculators.
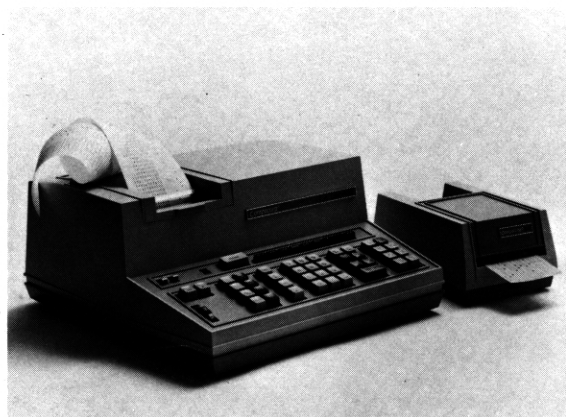
Execution of arithmetic is fully algebraic.

The machine calculates with 14-digit accuracy. It contains 16 registers, of which 10 are accessible from the keyboard. Each of these holds a 14-digit number with 2-digit exponent, and each may be split so that up to 20 5-digit numbers with exponents may be stored and manipulated.

Programs are stored in additional registers and do not occupy any operating or data storage space.

The calculator will not overflow regardless of decimal wheel setting and size of integer (up to 14 digits), but will move the decimal point to accommodate the integer and go into exponential mode after 10 digits. (Range: 10^{-98} to 10^{+99}).

Software available or in development consists of operating and programming manuals as well as supplementary curriculum material for elementary and secondary school remedial mathematics, industrial mathematics, general mathematics, computer-assisted practice drill exercises, Algebra I through Analytical Geometry and the sciences.

See other side for specifications.

The Compucorp 025 Educator.

Capacity

Data:
14-digit mantissa & sign.
2-digit exponent & sign.
Exponential range 10^{-98} to 10^{+99}.

Printer:
10-digit mantissa with sign & symbol.
2-digit exponent & sign.

Program:
128 instruction steps (equivalent to more than 1,100 because of special-function microprogramming).
256 instruction steps optional.

Decimal system (Superpoint™)

Floating point, or fixed point with floating point override.

Keyboard functions

Add, subtract, multiply, divide (intermix, any sequence).
Polar-rectangular conversion.
Square root.
Sine/cosine, arcsine/arccosine.
Hyperbolic sine/cosine, arcsine/arccosine.
Radian-degree conversion.
Log and antilog, base 10 and base e.
$1/x$.
Integer/fraction separation.
Statistical summation (n, x, x^2).
π and e entry.
Exponent entry.
Change sign.
Conditional and unconditional branching.
Absolute value of x.
Identifier.
Clear entry.
Reset.
Print selection (print complete audit record or on command only).
10 keyboard registers, with store, recall, and add-to-memory keys.

Programmable functions

All keyboard functions.
a^x including negative and fractional powers.
Rectangular-polar conversion.
Factorial.
Register exchange.
Conditional branching from high, low and equal comparisons.
Equals-sum-seven.
Equals-sum-eight.
Subroutines.
Register splitting—2 numbers per register (5-digit mantissa and 2-digit exponent for each).
Plot subroutine for XY plotter.
Pen commands for XY plotter.

Accessories

Card reader.
XY plotter.

General

Dimensions: Width 14½", depth 15", height 7".
Weight: 22½ pounds.
Voltage: 100, 115, 215, 230vac ±10%, 50/60Hz. (Battery power: consult factory).
Temperature: Operating range +32° to 115°F, 0° to 46°C. Storage range −30° to +140°F, −35° to +60°C.
Power consumption: 30w. With card reader 65w.

Compucorp Calculators

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