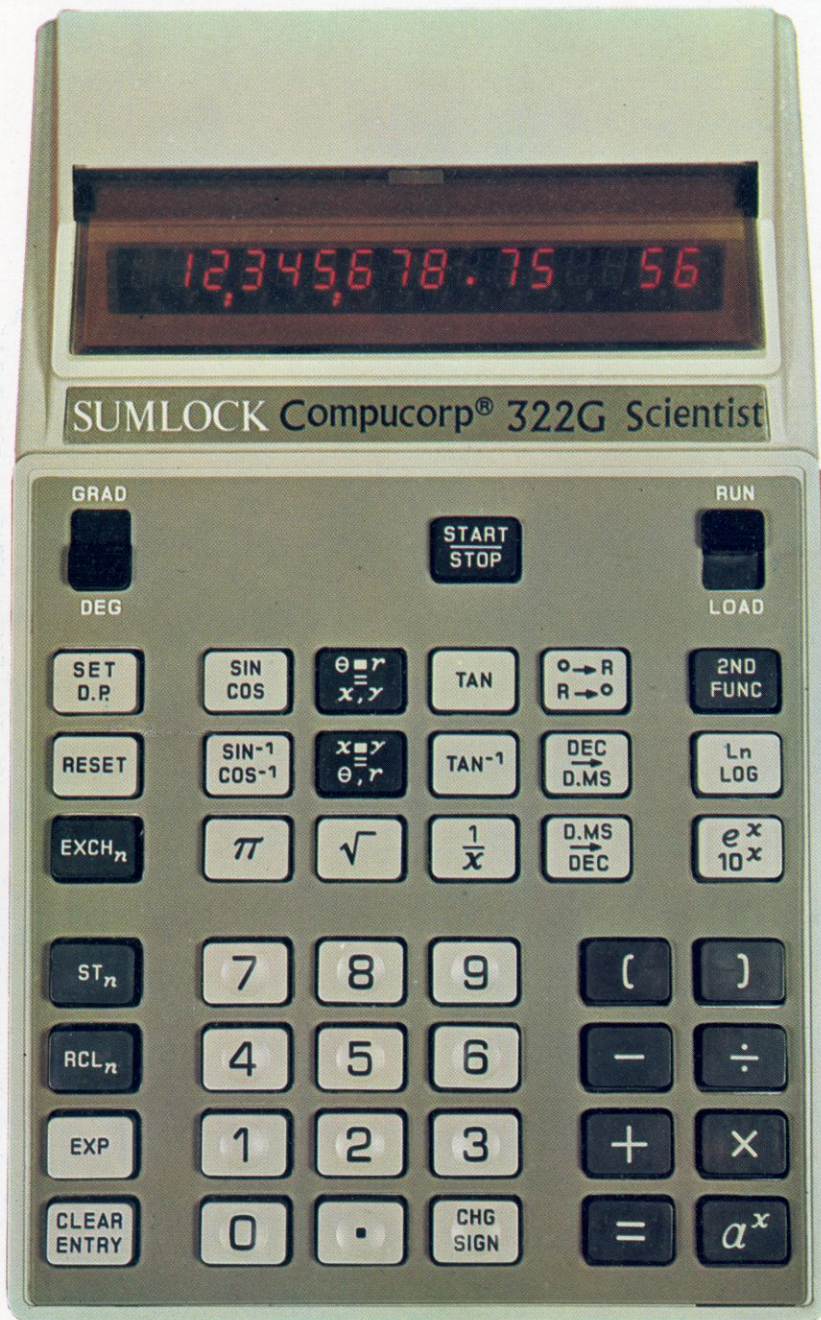




322G SUMLOCK
COMPUCORP
SCIENTIST



SUMLOCK COMPTOMETER LIMITED



Sumlock Compucorp Scientist

Here is the most powerful Calculating Aid ever put into the hand of man. Just look at these advantages:

SPECIFICATION Superior Simplicity, Speed and Accuracy in Scientific Calculating.

FEATURES:

PROGRAMME STORAGE

80 step programme memory. Arithmetic & function sequence including constants and data entry points, stored automatically as calculation is performed in load mode. Automatic execution in run mode. Programme-step number is displayed in load mode.

ARITHMETIC

+, -, × and ÷, double nested brackets, 13 digits Mantissa and sign (10 figures displayed) plus 2 digit exponent, 10^{-98} to 10^{+98} range.

MATHEMATICAL FUNCTIONS

Sine, cosine, tangent, arcsine, arcosine, arctangent, rectangular to polar and polar to rectangular co-ordinate conversion, raising to powers, Ln, e^x , \log_{10} , 10^x , π entry, square root, exponent entry, reciprocal, degree-minute-second conversion to decimal degree and vice-versa, degree to radian and radian to degree conversion, degree or grad operation.

NUMBER STORAGE

10 Full capacity storage registers, 13 digits plus 2 digit exponent. Store, recall, and exchange control keys. Direct +, -, ×, ÷ into and out of all storage registers.

DISPLAY

Easily read, large figure display. Decimal selection, zero to eight places & exponent notation. Step number displayed in load mode.

ACCESSORIES

Carrying case, battery charger/AC power lead.

PORTABILITY

Mains or battery operation. Actual size only: 140 × 230 × 51mm. (5.5" × 9" × 2"), yet ideal for desk top use.

Model 322G

Judge for yourself the easy operating sequences available through Sumlock Compucorp Scientist 320 and 322G

EXAMPLE ONE

EVALUATE

$$Q = \sin \phi \left[1 + \left(\frac{R}{l} \cos \phi \right) \right]$$

WHERE $\phi = 5^\circ, 10^\circ, 15^\circ, \text{AND } 22\frac{1}{2}^\circ$
 $l = 19.5$
 $R = 3.75$

OPERATING SEQUENCE

SET D.P. 5

Engage 'load'

START STOP 5 **SIN COS** **X** **(** 1 **+** **(** 3.75 **÷**

19.5 **X** **2ND FUNC** **)** **)** **=**

DISPLAYS RESULT OF FIRST CALCULATION WHERE $\phi = 5^\circ$

ENGAGE 'RUN' DISPLAYS 0.10385

PRESS 'START'

INDEX 10 PRESS START 0.20653 IS DISPLAYED

INDEX 15 PRESS START 0.30689 IS DISPLAYED

INDEX 22.5 PRESS START 0.45067 IS DISPLAYED

EXAMPLE TWO

EVALUATE

$$\left[\frac{920 \times 7.4}{(12.36 \times 10^6 \times .0015 + 1423)} - \frac{1}{\pi} \right]^{1.375}$$

OPERATING SEQUENCE

SET D.P. 2

(920 **X** 7.4 **÷** **(** 12.36 **EXP** 6

X .0015 **+** 1423 **)** **-** **π**

1/x **)** **a^x** 1.375 **=**

DISPLAYS 0.005

IF DESIRED FULL SIGNIFICANCE OF THIS RESULT CAN BE OBTAINED AS FOLLOWS:—

SET D.P. 9 DISPLAYS $5.496525967 \times 10^{-3}$

To try the SCIENTIST Model for yourself contact the most convenient of the offices listed overleaf. Remember that all Sumlock Compucorp equipment is backed by the famous Sumlock Comptometer after sales & maintenance service. There's a Service Centre near you.

So simple to operate.....

These instructions appear on the base plate of each machine.

RESET CLEARS ENTRY, ERROR AND STOPS ALGEBRAIC SEQUENCES

DATA ENTRY KEYS MAXIMUM 13 DIGITS AND 2 EXP DIGITS

STORAGE 10 REGISTERS, R0 TO R9
 4 STORES DISPLAY IN R4
 4 DISPLAYS R4
 4 EXCHANGES DISPLAY WITH R4

ARITHMETIC: $\frac{2+3}{4} = ?$

 $7 - (R8 + 5) \times R7 = ?$

STORAGE ARITHMETIC:
 ADDS DISPLAY TO R4
 DIVIDES DISPLAY BY R4
 MAY BE USED WITH ANY REGISTER IN THIS MANNER

FUNCTIONS ONE FUNCTION KEYS: PRESS KEY
 = 1414

TWO FUNCTION KEYS: PRESS KEY TO DISPLAY TOP FUNCTION, THEN PRESS TO DISPLAY LOWER FUNCTION
 = 8593 = 0.301

PROGRAMMING: TO LOAD PROGRAM, SWITCH TO LOAD . DISPLAY IS EXPONENTIAL, WITH STEP NUMBER

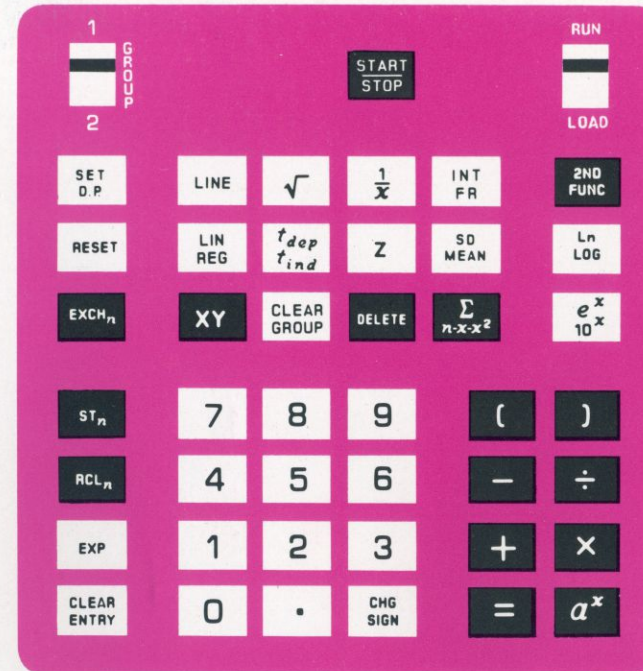
 CALCULATION SEQUENCE IS LEARNED AS PERFORMED

FOR VARIABLE ENTRY, PRESS BEFORE ENTERING VALUE. PROGRAM WILL STOP AT THAT POINT WHEN IN RUN MODE TO ALLOW ENTRY OF NEW VALUE

TO RUN PROGRAM, SWITCH TO RUN . PRESS TO BEGIN PROGRAM

LOW BATTERY: DISPLAY FLASHES. CALCULATION MAY CONTINUE

BATTERIES: REPLACE ONLY WITH COMPUCORP RECHARGEABLE BATTERIES AS SPECIFIED IN OPERATING MANUAL. IMPROPER BATTERIES MAY DAMAGE CALCULATOR



If you are a Statistician the keys you need are on the 340 - 342 Models illustrated here.

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