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, arc sine, arc cosine, arctangent, rectangular to polar and polar to rectangular co-ordinate conversion, raising to powers, Ln, eˣ, log₁₀, 10ˣ, ± 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 320G as illustrated is programmable. Model 320G is not programmable but has every other benefit feature.
Model 322G

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

EXAMPLE ONE

EVALUATE

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

WHERE

\[ a = 5^\circ, 10^\circ, 15^\circ, \text{AND} \ 22\frac{2}{3}^\circ, \]

\[ l = 19.5 \]

\[ R = 3.75 \]

OPERATING SEQUENCE

SET D.P. 5

Engage 'load'

START 5

ENTER SIN COS X ( 1 + ( 3.75 ) ) =

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

\[ \left[ \frac{920 \times 7.4}{(12.36 \times 10^8 \times -0.015 + 1423)} \right] - \frac{1}{1.375} \]

OPERATING SEQUENCE

SET D.P. 2

ENTER 920 X 7.4 : ( 12.36 EXP 6 ) - ( 0.015 + 1423 ) =

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.

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

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