



**NCR**

**18**



**THE ELECTRONIC CALCULATOR WITH *ADVANCED DESIGN***

# S P E C I F I C A T I O N S



## ADVANCED DESIGN IS THE PRODUCT OF COMPUTER TECHNOLOGY

The ultra new NCR 18 Electronic Calculator will completely change your ideas about figuring machines. Compare it, feature for feature, with any other calculator you can find. Take a look at the future now. Find out what computer technology has done for calculators and can do for you. Try this full-featured machine on your most difficult jobs. Test its ability on any kind of business,

financial, or engineering problem. The NCR Electronic Calculator can be a powerful tool in any office. Offers maximum flexibility for a direct, logical solution to almost any kind of mathematical computation which can be put on paper. It "thinks" like a computer but no programming is required. It has easy Keyboard Input and instant Display Output; plus two magnetic core memories.

Operates at electronic speeds with complete silence. Solid state construction means no mechanical parts to wear out. Integrated circuitry provides maximum reliability and compact size. See the only calculator guaranteed by NCR, manufacturer and distributor of quality business machines throughout the world.

### HOW NCR 18 OPERATES *Amounts entered on keyboard are instantly visible in Display.*

The four basic arithmetic operations  $\oplus$ ,  $\otimes$ ,  $\ominus$ , and extraction of square root  $\sqrt{\quad}$  may be performed in Operating Register alone, or in Operating Register and Memory 1 simultaneously depending on the function bars selected. Memory 2 may be accessed directly through either  $\text{MR}$  or  $\text{MA}$  control bars. Amounts in Memory 1 or Memory 2 may be recalled to Display at will by depressing  $\text{M1}$  or  $\text{M2}$  bars. With many calculators it is necessary to re-enter amounts frequently, thereby increasing the chance for error. This is not true of the NCR 18 Electronic Calculator. Any amount in Display may be processed immediately without re-entry on keyboard.

#### Reduces Chance For Re-entry Errors

The two memory registers of the NCR 18 Electronic Calculator provide an easy way to store amounts needed in later steps of a problem. Some calculators virtually invite re-entry errors by forcing the operator to repeatedly re-index results previously obtained. The NCR 18 calculator retains intermediate results for later use. Reducing or eliminating the need to re-enter amounts on keyboard greatly improves efficiency. For example:  
Multiply  $1.23 \times 4.5 \times .67 \times 8.9 = 33.005$   
On some other calculators it is necessary to re-index two products to solve this problem. On the NCR Calculator no re-indexing is necessary!

#### Easy-to-read Display

Display shows illuminated digits of every amount entered on keyboard and the result of every computation. Capacity is 16 digits, each 5/8 inches high. Compare the size and readability of these figures with the figures displayed on the miniature television screen found on calculators using the "stack" principle. Errors are less likely to occur when only one amount is displayed. Negative totals (credit balances) are identified by minus sign at left of Display panel.

#### Shift Key and Overflow Signal

Shift key moves entire amount one place to right. Eliminates last digit entered or re-positions amount displayed in order to prevent overflow. If the capacity of Display is exceeded, Overflow Signal at left of Display panel lights.

#### Decimal Place Selector

Selector at left of keyboard designates number of decimal places to be retained in each

#### Automatic Round-off

After each calculation, depress  $\text{R}$  bar to automatically round off the answer to number

#### Memories Accumulate Totals or Store Constants

In addition to an operating register, the

#### Automatic Square Root

Extraction of square root is literally as simple as pushing a button.  $\sqrt{\quad}$  radicand. De-

mal places may be chosen.

#### Automatic Decimal Point

Positioning of the decimal point in all calculations is fully automatic. It is only necessary to index the decimal point in the proper sequence (as if it were a digit) when entering amount on keyboard. Decimal Point Key is conveniently located next to Zero Key. If the Decimal Point Key is not used, machine automatically accepts entry as a whole number.

tor. Round-Off slide control at right of keyboard has three settings. Middle position causes "1" to be added in last decimal place if the next-place value is "5" or more. Amount is dropped if next-place value is "4" or less. When the Round-Off slide is in upper position, last decimal digit will be increased by "1" if the next-place value is "1" or more. In the lower position, nothing is added to last decimal place regardless of next-place value.

NCR electronic calculator has two memories which can be used to accumulate totals or to store amounts. Thus, intermediate results can be recalled and used in later steps of a calculation. With the  $\frac{M}{\square}$  key it is possible to simultaneously calculate and accumulate the results in Memory 1. The red  $\frac{M}{\square}$  key makes it possible to calculate and subtract the results from Memory 1.

"Equals"  $\frac{E}{\square}$  bar to obtain instantaneous result in Display. This process can be repeated to obtain 4th root, 8th root, etc.

Amounts stored in both memories may be recalled any number of times. Transfer of an amount from one memory to another is possible only by first going through Display. Amount in Display can be processed without re-indexing. Saves effort and prevents errors.

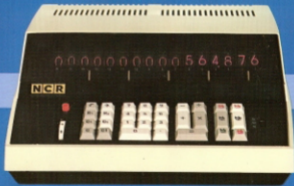
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## 18 ELECTRONIC CALCULATOR

MODERN AS TOMORROW... IT'S HERE TODAY

THIS IS ADVANCED DESIGN

18



- INTEGRATED CIRCUITRY
- REMOVABLE CIRCUIT BOARDS

- WEIGHS ONLY 15.4 POUNDS
- MAGNETIC CORE MEMORIES
- SOLID STATE CONSTRUCTION

- TRUE PORTABILITY
- COMPACT SIZE

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# S P E C I F I C A T I O N S

## Operating Speeds and Capacities

Display		16 digits
Addition	.02 sec.	16 digits
Subtraction	.02 sec.	16 digits
Multiplication	.43 sec. max.	16 digits
Division	.43 sec. max.	14 digits
Square Root	.43 sec. max.	14 digits

## Operating Element

Solid State construction, integrated plug-in circuit boards and magnetic core memories.

## Power Consumption

40 Watts

## Ambient Temperature Range

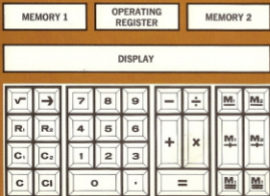
32° — 104°F.

## Dimensions

13 1/8" x 13 1/8" x 5 5/8"

## Weight

15.4 pounds



THE NATIONAL CASH REGISTER COMPANY • DAYTON, OHIO 45409



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