

## TO THE CONSUMER

### FULL SIX MONTH WARRANTY

For six month from date of purchase, APF will repair defects in material or workmanship, free of charge, which appear in the operation of this electronic calculator unless caused by damage resulting from corrosive leakage of batteries or from the unreasonable use of this product.

To obtain service under this warranty, return this calculator to your Dealer with evidence of date of purchase, or return it directly to APF Service, prepaid, with proof of purchase date.

**OUT OF WARRANTY SERVICE.** State the nature difficulty. As with any fine equipment, pack carefully and forward via insured, prepaid parcel post to:

**APF Service Center**  
43-17 Queens St.  
Long Island City, N.Y. 11101

**APF ELECTRONICS INCORPORATED**  
New York, N.Y. 10022

26-85300

Printed in Japan

# APF

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## mark 26

electronic calculator with  
percentage key and  
full accumulating memory

### operating instructions

APF ELECTRONICS INC. NEW YORK N.Y. 10022

home, office or school.

Your APF Mark 26 calculator was designed to be compact and portable, yet powerful enough for you to ease through all daily calculations.

You may work from an internal battery source or, by means of an [optional] A.C. adaptor, from any convenient 110-120 volts A.C. outlet.

To simplify operation, your calculator is programmed for "THINK AND TOUCH"—"THINK" the mathematical sequence and "TOUCH" the appropriate keys as you think—the correct answer instantly appears on the bright, clear eight-digit display. The decimal point automatically moves to the correct position.

Please review the instructions in this booklet. Work through the examples illustrated and within a very short time you will become proficient in using your new calculator.

### SUGGESTED USES

#### Home

- Budgets • Stock & Bond Investments
- Check Book Balancing
- Clothing Invoices • Grocery Bills
- Income Tax Returns • Credit Card Bills
- Loans • Sports Averaging

#### Store and Away from Home

- Unit Pricing • Grocery Bills • Figure Best Bargains
- Gas Mileage • Mark Down (Discount)
- Car Costs • Restaurant Checks

#### Business or School

- Expense Report • Percentage Profit • Cost Analysis
- Compound Interest • Payroll • Taxes • Invoicing
- Markups/Markdowns • Inventory
- Metric/English Conversions
- Slide Rule Calculations

Convenient, rapid, accurate. You'll find many uses for your Electronic Calculator.

- Your calculator is operated by using a 9 volt battery. Under normal operating conditions, a new 9 volt carbon zinc battery will provide about 12 to 18 hours of calculating time. A new 9 volt alkaline battery will provide about 35 to 40 hours of calculating time.

- To replace a battery, slide the battery cover off the battery compartment, and CAREFULLY remove the battery. The battery cover is located on the underside of the calculator. Hold the battery in one hand and GENTLY unsnap the battery connector. Snap a new battery into the connector, replace in the battery compartment and slide the cover back in place.

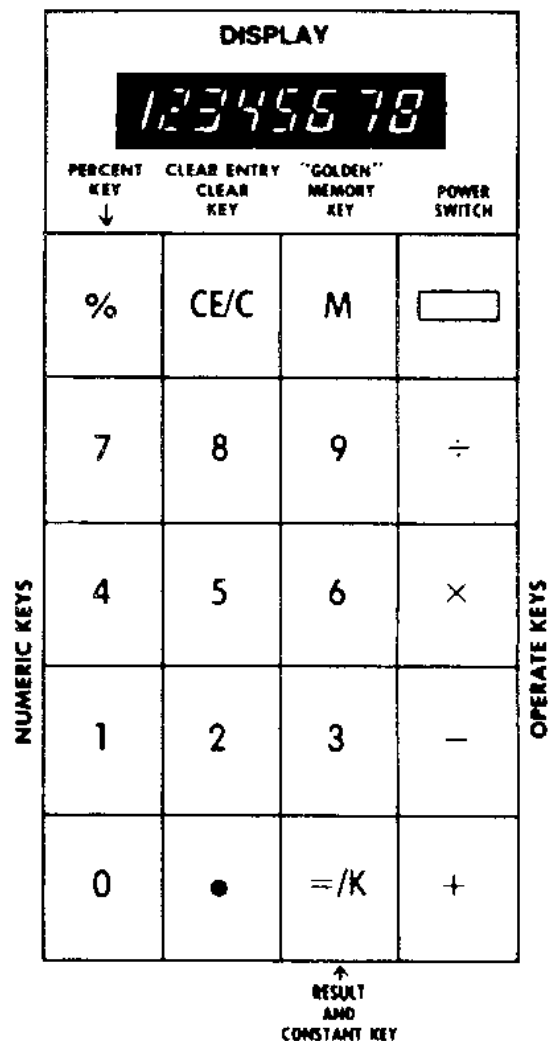
- When the battery is almost discharged, the display will become dim. To prevent improper calculations the battery must be replaced as soon as possible.

- Note: To prevent damage to your calculator, remove a bad battery. Do not store your calculator for extended periods of time with a battery in the battery compartment.

- To conserve battery life turn the calculator off when not in use.

- For A.C. operation, it will be necessary to use the optional A.C. adaptor model 710 or 7515, designed specifically for this calculator. Turn the power switch off, connect the adaptor to any convenient source of 110-120 volts A.C., and push the jack into the socket of the right side of the case. When the jack is inserted, the battery is automatically disconnected.

**NOTE:** Use of any A.C. adaptor other than the type specifically designed for this calculator, may cause damage to the electronic circuits within the unit. See your Dealer for purchase of the proper A.C. adaptor.



## KEYS AND SWITCHES

**POWER SWITCH**—Turns the calculator "ON" or "OFF". To turn the calculator on, slide the power switch to the left. A red dot will be visible when the switch is in the "on" position.

**NUMERIC KEYS**—Standard 1 to 9 keyboard is provided as well as [0] and [.] .

**[CE/C] CLEAR ENTRY/CLEAR KEY**—This is a multi-function key which will clear the display at the last entry or result on the first push, and clear the calculator of all previous calculations on the second push. During overflow, touching [CE/C] once will clear the overflow symbol and allow further calculations. (See page 15.)

**NOTE:** ALWAYS touch CE/C twice before beginning a new calculation.

**[+] [-] [×] [÷] OPERATE KEYS**—These keys will perform any previous operation as well as instruct the calculator as to the next operation to be performed.

**[=/K] RESULT KEY**—At the conclusion of calculation touching this key will immediately place the answer on the display. Also, this key operates the AUTOMATIC CONSTANT [K] (see pages 9 and 10)

**[%] PERCENT KEY**—This is a special purpose key used to simplify calculations involving Percentage (mark-up, discount). See example page 11.

**[M] "Golden" Memory Key**—enables you to carry out 6 types of memory operations. (see page 12.)

## DISPLAY INDICATORS

**[-] MINUS SIGN**—The minus sign will appear in the left of the most significant digit.

**E OVERFLOW INDICATOR**—When the result of a calculation exceeds 8 digits (99999999), the capacity of the Calculator has been reached. This is indicated by the appearance of E on the left side of the display. NOTE THAT THE CORRECT POSITION OF THE DECIMAL POINT IS NOW 8 PLACES TO THE RIGHT. Appearance of the overflow indicator inhibits further calculations until the indicator is removed by depressing the [CE/C] key just once. See example page 15.

## BASIC OPERATING INSTRUCTIONS

### Number Entry

TO ENTER A NUMBER, "TOUCH" THE NUMERIC KEYS IN SEQUENCE.

Example: To enter 12.3

KEY SEQUENCE	DISPLAY
Touch [CE/C] Twice	0.
Touch 1	1.
Touch 2	12.
Touch [.]	12.
Touch 3	Answer 12.3

TO CLEAR AN INCORRECT ENTRY, USE THE [CE/C] KEY.

Example: To calculate  $12 \times 7 = ?$

KEY SEQUENCE	DISPLAY
Touch [CE/C] Twice	0.
Enter 12	12.
Touch [x]	12.
In error you enter 8	8.
"MISTAKE"	"MISTAKE"
Touch [CE/C]	0.
Enter 7	7.
Touch [=/K]	Answer 84.

**DECIMAL POINT**—The decimal point in the answer is always floating with a maximum of 7 places.

Example:  $12.34 \times 6.78 = ?$

KEY SEQUENCE	DISPLAY
Touch [CE/C] Twice	0.
Enter 12.34	12.34
Touch [x]	12.34
Enter 6.78	6.78
Touch [=/K]	Answer 83.6652

NOTE: The decimal point automatically floated to 4 places.

## ADDITION AND SUBTRACTION

Example 1: To calculate  $13.35 + 4.56 = ?$

ENTER	TOUCH	DISPLAY
	[CE/C] Twice	0.
13.35	[+]	13.35
4.56	[=/K]	Answer 17.91

Example 2: To calculate  $9 + 17 + 32.5 = ?$

ENTER	TOUCH	DISPLAY
	[CE/C] Twice	0.
9	[+]	9.
17	[+]	26.
32.5	[=/K]	Answer 58.5

Example 3: To calculate  $436.10 - 103.90 = ?$

ENTER	TOUCH	DISPLAY
	[CE/C] Twice	0.
436.1	[-]	436.1
103.9	[=/K]	Answer 332.2

Example 4: To calculate  $183.70 - 341.60 = ?$

ENTER	TOUCH	DISPLAY
	[CE/C] Twice	0.
183.70	[-]	183.70
341.60	[=/K]	Answer -157.90

Example 5: Your check book has a starting balance of \$86.39. You write checks for \$21.00, \$32.45 and \$14.26, then deposit \$162.26. What is your balance?

ENTER	TOUCH	DISPLAY
	[CE/C] Twice	0.
86.39	[-]	86.39
21.00	[-]	65.39
32.45	[-]	32.94
14.26	[+]	18.68
162.26	[=/K]	Answer 180.94

### MULTIPLICATION AND DIVISION

**Example 1:** To calculate  $31.62 \times 58.6 = ?$

ENTER	TOUCH	DISPLAY
	[CE/C] Twice	0.
31.62	[×]	31.62
58.6	[= /K]	Answer 1852.932

**Example 2:** To calculate  $3 \times 4 \times 1.05 = ?$

ENTER	TOUCH	DISPLAY
	[CE/C] Twice	0.
3	[×]	3.
4	[×]	12.
1.05	[= /K]	Answer 12.6

**Example 3:** To calculate  $196 \div 7 = ?$

ENTER	TOUCH	DISPLAY
	[CE/C] Twice	0.
196	[÷]	196.
7	[= /K]	Answer 28.

**Example 4:** You drive in your automobile 186 miles and use 12.0 gallons of gas. How many miles, to the gallon, did you average? Use  $186 \div 12$  miles per gallon.

ENTER	TOUCH	DISPLAY
	[CE/C] Twice	0.
186	[÷]	186.
12	[= /K]	Answer 15.5

### CHAIN CALCULATIONS

**Example:** To calculate  $6.5 \times 32 \div 4 + 19 = ?$

ENTER	TOUCH	DISPLAY
	[CE/C] Twice	0.
6.5	[×]	6.5
32	[÷]	208.
4	[+]	52.
19	[= /K]	Answer 71.

### CONSTANT OPERATION

#### REPEAT ADDITION OR SUBTRACTION

If during a calculation, you require adding or subtracting a number repeatedly, simply press the [= /K] key the desired number of times after entering the number.

**Example:**  $2 + 4 + 4 + 4 - 3 - 3 = ?$

ENTER	TOUCH	DISPLAY
	[CE/C] Twice	0.
2	[+]	2.
4		4.

**NOTE:** you wish to add the number 4 three times

	[= /K] 3 Times	14.
	[−]	14.
3	[= /K] Twice	Answer 8.

#### REPEAT MULTIPLICATION (POWER CALCULATION)

**Example:**  $9^4 = ?$

ENTER	TOUCH	DISPLAY
	[CE/C] Twice	0.
9	[×]	9.
	[= /K] 3 Times	Answer 6561.

### RECIPROCAL

To find the reciprocal of a number or calculated answer use the automatic constant. When the number you want to take the reciprocal of is being displayed, simply press [÷], then [= /K] twice.

**Example:** To calculate the reciprocal of 2.

ENTER	TOUCH	DISPLAY
	[CE/C] Twice	0.
2	[÷]	2.
	[= /K] Twice	Answer 0.5

### SIGN CHANGE

To change the sign of the displayed number (from + to − or − to +) simply touch [−] [= /k] [= /k]. then continue your calculation.

### CALCULATIONS USING A CONSTANT

#### CONSTANT MULTIPLICATION

For multiplication the SECOND number entered is the Constant

EXAMPLE	OPERATION	DISPLAY
3.72 is a constant		
15 [×] 3.72	15 [×] 3.72 [=/k]	55.8
30 [×] 3.72	30 [=/k]	111.6
215 [×] 3.72	215 [=/k]	799.8

#### CONSTANT DIVISION

For division the SECOND number entered is the Constant

EXAMPLE	OPERATION	DISPLAY
12 is a constant		
48 ÷ 12	48 [÷] 12 [=/k]	4.
180 ÷ 12	180 [=/k]	15.
756 ÷ 12	756 [=/k]	63.

#### CONSTANT ADDITION

For addition the SECOND number entered is the Constant

EXAMPLE	OPERATION	DISPLAY
17 is a constant		
15 + 17	15 [+] 17 [=/k]	32.
27.5 + 17	27.5 [=/k]	44.5
92.8 + 17	92.8 [=/k]	109.8

#### CONSTANT SUBTRACTION

For subtraction the SECOND number entered is the Constant

EXAMPLE	OPERATION	DISPLAY
25.5 is a constant		
57 - 25.5	57 [-] 25.5 [=/k]	31.5
32 - 25.5	32 [=/k]	6.5
12 - 25.5	12 [=/k]	-13.5

NOTE: Since the constant operation is automatic do not push the [=/k] key more than once for any operation.

**PERCENTAGE CALCULATION %**—The percent key is useful for dividing numbers by 100, and in markon — markdown problems, it reduces the number of steps required.

Example 1: To calculate  $110 \times 12\% = ?$

ENTER	TOUCH	DISPLAY
	[CE/C] Twice	0.
110	[×]	110.
12	[%]	Answer 13.2

Example 2: Yield

You borrow \$5000. What interest will you pay (a 7.75% after one year?)

ENTER	TOUCH	DISPLAY
	[CE/C] Twice	0.
5000	[×]	5000.
7.75	[%]	Answer 387.5

Example 3: Markup

Your cost is \$323.00 and you wish to mark on 16%. What is your profit and selling price?

ENTER	TOUCH	DISPLAY
	[CE/C] Twice	0.
323	[+]	323.
16	[%]	Profit 51.68
	[=K]	Selling Price 374.68

Example 4: Discount (Markdown)

The normal selling price is \$323.00. You wish to discount this item by 16%.

ENTER	TOUCH	DISPLAY
	[CE/C] Twice	0.
323	[-]	323.
16	[%]	51.68
	[=K]	Answer 271.32

### USING THE MEMORY

The memory is a place to store a number for future use. Touching the memory key (labeled [M]) and then either the [+], [-], [=/K], [CE/C], [×] or [÷] will perform one of the following functions.

- [M] [+] — Adds the number on the display to the memory and leaves the display unchanged.
- [M] [-] — Subtracts the number on the display from the memory and leaves the display unchanged.
- [M] [=/K] — Clears the display and recalls the number from the memory to the display. **Note:** The number also remains in the memory.
- [M] [CE/C] — Clears all numbers from the memory and leaves the display alone.
- [M] [×] — Multiplies the number in memory by the number in the display and places the result in memory. The display remains unchanged.
- [M] [÷] — Divides the number in memory by the number in the display, and places the result in memory. The display remains unchanged.

#### Memory in use indicator:

Whenever any number except zero is in the memory, the decimal point of the left most digit will light.

NOTE: Always clear the memory ([M][CE/C]) and display ([CE/C] twice) before beginning a new problem.

#### Example 1:

$$[(12 + 34) \times (98 - 76)] \div (36 - 32)$$

Enter	Touch	Display	Memory
	[CE/C] Twice	0.	
	[M][CE/C]	0.	0.
12	[+]	12.	0.
34	[=/K]	46.	0.
	[M][+]	46.	46.
98	[-]	98.	46.
76	[=/K]	22.	46.
	[M][×]	22.	1012.
36	[-]	36.	1012.
32	[=/K]	4.	1012.
	[M][÷]	4.	253.
	[M][=/K]	Answer 253.	253.

#### Example 2:

What is the invoice to a customer who buys 12 pieces of 1 item at \$12.37 each and 24 pieces of a second item at \$18.69 each. Include 8% sales tax.

Enter	Touch	Display	Memory
	[CE/C] Twice	0.	
	[M][CE/C]	0.	0.
12	[×]	12.	0.
12.37	[=/K]	148.44	0.
	[M][+]	148.44	148.44
24	[×]	24	148.44
18.69	[=/K]	448.56	148.44
	[M][+]	448.56	597.00
	[M][=/K]	597.00	597.00
	[+]	597.00	597.00
8	[%]	47.76	597.00
	[=/K]	Total 644.76	597.00

**Example 3:** To calculate expenses at a hotel for 3 days:

EXPENSE	KEY SEQUENCE	DISPLAY	MEMORY
	Touch (CE/C) Twice	0	
	Touch (M)((CE/C)	0.	0.
Telephone \$9.30	Enter 9.30	9.30	0.
	Touch (M)((-)	9.30	9.30
Room 3 Days @ \$13.75	Enter 3	3	9.30
	Touch (x)	3	9.30
	Enter 13.75	13.75	9.30
	Touch (=/K)	41.25	9.30
	Touch (M)((+)	41.25	50.55
Laundry 3 Shirts @ \$ 50	Enter 3	3	50.55
	Touch (x)	3	50.55
	Enter 50	0.50	50.55
	Touch (=/K)	1.5	50.55
	Touch (M)((+)	1.5	52.05
6 Pairs of Socks @ 15 cents	Enter 6	6.	52.05
	Touch (x)	6	52.05
	Enter .15	0.15	52.05
	Touch (=/K)	0.9	52.05
	Touch (M)((+)	0.9	52.95
Meals \$22.00 plus 15%	Enter 22.	22.	52.95
	Touch (+)	22.	52.95
	Enter 15	15.	52.95
	Touch (%)	3.3	52.95
	Touch (=/K)	25.3	52.95
	Touch (M)((+)	25.3	78.25
Room Service 3 Days @ \$3.25/day	Enter 3	3.	78.25
	Touch (x)	3.	78.25
	Enter 3.25	3.25	78.25
	Touch (=/K)	9.75	78.25
	Touch (M)((-)	9.75	88.00
Courtesy Discount 7.5%	Touch (M)((=/K)	88.00	88.00
	Touch (x)	88.00	88.00
	Enter 7.5	7.5	88.00
	Touch (%)	6.6	88.00
	Touch (M)((-)	6.6	81.40
Taxes	Touch (M)((=/K)	81.40	81.40
	Touch (+)	81.40	81.40
5%	Enter 5	5	81.40
	Touch (%)	4.07	81.40
	Touch (=/K)	85.47	81.40

**EXAMPLE OF OVERFLOW**

4266 x 53125 x 1862 = ?

ENTER	TOUCH	DISPLAY
	(CE/C) Twice	0.
4266	(x)	4266.
53125	(x)	E2.2663125

**Note:** The overflow indicator is lit and the decimal point is shifted 8 places to the LEFT. The correct answer is 226631250.

To continue:

	(CE/C) Once	2.2663125
1862	(=/K)	Answer 4219.8738

Correct answer is  $4219.8738 \times 10^8 = 421987380000$ .

**METRIC CONVERSION CONSTANTS**

TO CONVERT	To	Multiply by
Feet		
Millimeters	Inches	.03937
Meters	Inches	39.37
Cubic centimeter (cc)	Cubic inches	.061025
Kilometers	Miles	.621377
Liters	Gallons	.26418
Grams	Ounces	.03527
Kilograms	Pounds	2.2046

**Example:** How many inches is 60 millimeters.

ENTER	TOUCH	DISPLAY
	(CE/C) Twice	0.
60	(x)	60
.03937	(=/K)	Answer 2.3622

For reciprocal constants (such as inches to millimeter), use reciprocal of constant as multiplier (1 divided by .03937 = 25.4)