

**elka<sup>®</sup> 101**

***Instructions for use***

**elka  
101  
elka**



***mini electronic calculator***

## INTRODUCTION

Your ELKA 101 8-digit pocket calculator is light and compact. You can take it anywhere with you. But with its universal applications, high speed and high reliability, it is comparable with machines that are much larger and more expensive.

Simple to operate, its features include:

- calculations in 8 digits
- display sign in case of overflow
- floating decimal point
- automatic constant for division and multiplication functions
- zero suppression
- percentage key
- chain calculations through memory

The ELKA 101 has a light emitting diode (LED) display. To make reading of the display easier, unnecessary zeros are not shown. All digits are clearly and sharply displayed.

There are individual display signs for "minus", "overflow" and "memory busy".

The calculator operates on four 1.5 volt batteries and when the battery voltage drops below 4 volts, all the decimal points are displayed.

## Taking care of your calculator

Your new electronic calculator is a durable, precision-made instrument. To keep it functioning well, note the following:

- Do not use your calculator in temperatures lower than freezing point and higher than 40° C (104° F).
- When low battery voltage is indicated, change batteries.
- Keep out of bright sunshine and away from heaters. Do not use in areas of high humidity.
- To clean your calculator use a soft duster, as harsh detergents may damage both the surface and the interior.

## KEYBOARD INDICATORS

- |               |  |
|---------------|--|
| ON-OFF switch | — turns calculator on and off                  |
| MEMORY        |  |
| ON-OFF switch | — in ON position allows accumulation in memory |
| 0-9 keys      | — input digit keys                             |
| .             | — enters a decimal point                       |
| +             | — adds the entered number                      |
| -             | — subtracts the entered number                 |

x key	— enters the multiplication instruction for a previously entered number	= key	— completes multiplication and division calculations
÷ key	— enters the division instruction for a previously entered number	Overflow indicator	— indicates that the result of a calculation contains more than 8 digits
% key	— completes multiplication or division; as on depression of x-key the result is divided by 100, and on depression of --key the result is multiplied by 100	Memory busy indicator	— indicates that a number is stored in memory
C key	— on entering a number clears the display register and on overflow — removes overflow sign	Minus sign indicator	— on being entered indicates a negative number or indicates the negative result of a calculation
CM key	— clears memory	Low battery indicator	— when illuminated battery voltage has fallen below 4 volts

**Note**

If the mode key is in ON position accumulation in memory is carried out.

**C key**

— on entering a number clears the display register and on overflow — removes overflow sign

**Note**

In all other cases it clears all registers except memory.

**CM key**

— clears memory

**RM key**

— transfers the contents of memory to the display register

**OPERATING INSTRUCTIONS****1. To switch on**

On switching the power switch "ON" — there is immediate power from the batteries. A zero next to a decimal point at the right hand of the display register indicates "ready" state. With Power on — all registers are cleared and you may use the calculator immediately.

**2. To clear**

For a new calculation clear the calculator by pressing key

C. If you wish to accumulate the result in the memory — clear the memory by pressing CM.

### **3. To enter**

Enter numbers individually — starting with the highest value number. To enter a decimal point press key . at the appropriate point.

### **4. Correction of wrongly entered numbers**

To clear an incorrect entry press key C, clearing the display register. Re-enter the right number.

### **5. Overflow**

Overflow occurs when more than 8 digits are entered. The 9th entry is blocked and the first 8 digits are retained.

Overflow also occurs when a calculation results in more than 8 digits. When this occurs, all keys except C are automatically blocked, the numbers of lowest value are eliminated and the "overflow" sign is illuminated.

To continue the calculation press the C-key once. The "overflow" sign then disappears and the key-block is removed. You may now continue your calculation.

## **GUIDE TO BASIC CALCULATIONS**

### **Example :**

**Addition:**  $16.39 + 9.83$

### **Operation**

Switch ON

- |                |       |
|----------------|-------|
| a) Press key C | 0.    |
| b) Enter 16.39 | 16.39 |
| c) Press key + | 16.39 |
| d) Enter 9.83  | 9.83  |
| e) Press key + | 26.22 |

### **Example :**

**Subtraction:**  $12.81 - 3.6$

### **Operation**

Switch ON

- |                |       |
|----------------|-------|
| a) Press key C | 0.    |
| b) Enter 12.81 | 12.81 |
| c) Press key + | 12.81 |
| d) Enter 3.6   | 3.6   |
| e) Press key - | 9.21  |

### **Example :**

$62 - 82 + 10 - 40$

### **Operation**

Switch ON

- |                |    |
|----------------|----|
| a) Press key C | 0. |
|----------------|----|

- b) Enter 62
  - c) Press key +
  - d) Enter 82
  - e) Press key -
  - f) Enter 10
  - g) Press key +
  - h) Enter 40
  - i) Press key -
62.  
62.  
82.  
- 20.  
10.  
- 10.  
40.  
- 50.

**Example :**

**Multiplication:**  $29.32 \times 56.5$

**Operation**

Switch ON

- a) Press key C
- b) Enter 29.32
- c) Press key x
- d) Enter 56.5
- e) Press key =

**Example :**

$3 \times 21 \times 6.1$

**Operation**

Switch ON

- a) Press key C
- b) Enter 3
- c) Press key x
- d) Enter 21
- e) Press key x

<b>Display</b>	<b>Operation</b>	<b>Display</b>
0.	a) Press key C	0.
29.32	b) Press key CM	0.
29.32	c) Enter 31	31.
56.5	d) Press key x	31.
1656.58	e) Enter 6.1	6.1
	f) Press key =	. 189.1
	g) Enter 8.2	. 8.2
	h) Press key =	. 254.2
	i) Enter 7.6	. 7.6
	j) Press key =	. 235.6
	k) Press key RM	. 678.9

**Example :**  
**Exponents:**  $2.5^4$

**Operation**

Switch ON

- a) Press key C
- b) Enter 2.5
- c) Press key x
- d) Press key =
- e) Press key =
- f) Press key =

<b>Display</b>	<b>Operation</b>	<b>Display</b>
0.	a) Press key C	0.
3.	b) Enter 2.5	2.5
3.	c) Press key x	2.5
21.	d) Press key =	6.25
63.	e) Press key =	15.625
	f) Press key =	39.0625

**Example :****Division:**  $625 \div 25 \div 5$ **Operation**

Switch ON

- a) Press key C
- b) Enter 625
- c) Press key  $\div$
- d) Enter 25
- e) Press key  $\div$
- f) Enter 5
- g) Press key =

**Display**

0.  
625.  
625.  
25.  
25.  
5.  
5.

**Example :****Division by constant and Accumulation** $4 \div 9 + 3 \div 9 + 2 \div 9$ **Operation**

Switch MEMORY ON

- a) Press key C
- b) Press key CM
- c) Enter 4
- d) Press key  $\div$
- e) Enter 9
- f) Press key =
- g) Enter 3
- h) Press key =
- i) Enter 2
- j) Press key =
- k) Press key RM

**Display**

0.  
0.  
4.  
4.  
9.  
.04444444.  
3.  
.03333333.  
.2.  
.02222222.  
.09999999.

**Example :****Percentage:** 5% of 125**Operation**

Switch ON

- a) Press key C
- b) Enter 125
- c) Press key  $\times$
- d) Enter 5
- e) Press key %

**Display**

0.  
125.  
125.  
5.  
6.25

**Example :**

13.20 + 5% of 13.20

**Operation**

Switch ON

- a) Press key C
- b) Enter 13.20
- c) Press key  $\times$
- d) Enter 5
- e) Press key %
- f) Press key +

**Display**

0.  
13.20  
13.20  
5.  
0.66  
13.86

**Example :****Accumulation of Percentages Through Memory**

9% of 123456.79 + 18% of 123456.79

**Operation**

Switch MEMORY ON

- a) Press key C
- b) Press key CM

**Display**

0.  
0.



c) Enter 123456.79	123456.79
d) Press key ×	123456.79
e) Enter 9	9.
f) Press key %	.11111.111
g) Enter 18	.18
h) Press key %	.22222.222
i) Press key RM	.33333.333

**Example :****Mixed Calculation**

$$(9.1 + 6 - 5.3) \times 4 \\ \underline{20} \quad - 12.5$$

**Operation**

Switch ON

a) Press key C	0.
b) Enter 9.1	9.1
c) Press key +	9.1
d) Enter 6	6.
e) Press key +	15.1
f) Enter 5.3	5.3
g) Press key -	9.8
h) Press key ×	9.8
i) Enter 4	4.
j) Press key =	39.2
k) Press key ÷	39.2
l) Enter 20	20.
m) Press key =	1.96
n) Press key +	1.96

o) Enter 12.5	12.5
p) Press key -	- 10.54

**Example :****Overflow Correction**

12345678×345678

**Operation**

Switch ON

a) Press key C	0.
b) Enter 12345678	12345678.
c) Press key x	12345678.
d) Enter 345678	345678.
e) Press key =	[42676292.
f) Press key C	42676292.
g) Press key C	0.

**Example :****Accumulation by Memory**

14.22 - 7.32 + 234.51

**Operation**

Switch MEMORY ON

a) Press key C	0.
b) Press key CM	0.
c) Enter 14.22	14.22
d) Press key +	14.22
e) Enter 7.32	7.32
f) Press key -	6.90



g) Press key =	6.90
h) Enter 234.51	234.51
i) Press key =	234.51
j) Press key RM	241.41

## SPECIFICATION

### Functions

Addition, subtraction, multiplication, division, multiplication by constant multiplier, division by constant divider, exponents, automatic accumulation in memory, mixed and chain calculations.

### Capacity

Display — 8 digits

Addition, subtraction 8 digits + 8 digits = 8 digits

Multiplication 8 digits × 8 digits = 8 digits

Division 8 digits ÷ 8 digits = 8 digits

### Arithmetic Registers

Three

### Free Memory

One

### Decimal Point

Floating

### Indicators

Overflow on calculations

Minus sign

Memory busy  
Low battery power

### Clearance

Automatic clearing of all registers on power on  
Clearance of the display register on entry of the first digit  
Clearance of all registers except memory by C-key  
Clearance of memory by CM-key

### Operational Speeds

Addition, subtraction	= 80 msec
Multiplication	= 150 msec
Division	= 200 msec

### Power Supply

Autonomous, 6 volts/four 1.5 V batteries

### Dimensions

(136 × 70 × 30) mm  
(5 $\frac{7}{8}$  × 2 $\frac{4}{5}$  × 1 $\frac{1}{5}$ ) inches

### Weight

200 g

7.1 oz.

### Power Consumption

Less than 1 VA

### Operational Temperatures

0° C to 40° C

32° F to 104° F