

MODE D'EMPLOI DE LA MACHINE PROGRAMMABLE OLIVETTI PROGRAMMA 101

FICHE N° 3774

PRÉSERVER
SAUVEGARDER
VALORISER

Période de fabrication : 1950-1974

Fabricant : Olivetti

Domaines : Informatique et Communication, Physique

Sous-domaines : Ordinateurs, Electronique, Electricité

Organisme : Université de Rennes

Ville : Rennes

Modèle : Programma 101

Matériaux :

Description

Ce mode d'emploi de 62 pages était fourni avec la machine programmable Olivetti Programma 101. Il décrit en détail la machine, ses composants, ses fonctions, les opérations possibles et la manière d'effectuer des programmes.

Il est accessible en format pdf sur plusieurs sites internet. Par exemple : <http://www.classiccmp.org/dunfield/calc/olpro101.pdf>

Utilisation

La programma 101 a été achetée par le laboratoire de Ferroélectricité de la Faculté des sciences de Rennes en 1968 pour faire rapidement des calculs de constantes diélectriques à partir de mesures de capacités d'échantillons. Par sa simplicité de programmation, elle était aussi utilisée en travaux pratiques de calcul numérique pour initier les étudiants de physique à la programmation. On utilisait pour cela des petites cartes magnétiques programmables.

ZYWV

2

CARD NO. _____

Date	Code	No. of Cards	No. of Instructions
mo. yr.			

Title _____

olivetti programma 101
 electronic desk computer
 PROGRAM CARD

olivetti programma 101
 electronic desk computer
 PROGRAM CARD

Title _____

Date	Code	No. of Cards	No. of Instructions
mo. yr.			

CARD NO. _____

VWYZ

1

c1

olivetti programma 101
 electronic desk computer
 PROGRAM CARD

Title _____

CARD NO. _____

OPERATING PROCEDURES

DECIMAL WHEEL SETTING _____

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Least Square's Fit to a
Parabolic Function
 $y = ax^2$

DATE	TIME	NO. OF READS	NO. OF INSTRUCTIONS
5/67	4:51:52:10	3	11812

PROGRAM INSTRUCTIONS
SIDE NO. A

REG. 1	REG. 2	REG. F	REG. E	REG. D	CONTENTS OF REGISTERS
1 AV	25 /V	49 R/↓	73	97	M Operand
2 S	26 B/↓	50 AY	74	98	
3 ↓	27 D/+	51 F/↓	75	99	A Operand
4 AV	28 B/⊗	52 F+	76	100	
5 AV	29 ↓	53 F/⊗	77	101	R Operand
6 AV	30 Ax	54 V	78	102	
7 AV	31 C/+	55 AZ	79	103	b
8 AV	32 C/⊗	56 F/↓	80	104	
9 AV	33 V	57 Fx	81	105	B
10 AV	34 A/V	58 R◆	82	106	
11 AV	35 ↓	59 W	83	107	c
12 AV	36 D/x	60 S	84	108	
13 AV	37 C+	61 S	85	109	C
14 F+	38 C⊗	62 S	86	110	
15 E/⊗	39 D/↓	63 AW	87	111	d Variable
16 E/↓	40 B+	64 B/◆	88	112	
17 -	41 B⊗	65 C/◆	89	113	D
18 -	42 D/↓	66 B◆	90	114	
19 E/+	43 Ax	67 C◆	91	115	e Variable
20 A+	44 D+	68 D◆	92	116	
21 Ex	45 D⊗	69 RS	93	117	E 444.7175495
22 D/⊗	46 D/*	70 F/↓	94	118	
23 A+	47 /◆	71 /◆	95	119	f
24 A⊗	48 Y	72 S	96	120	
REG. 1	REG. 2	REG. f	REG. e	REG. d	F

Lower case letters are entered with the corresponding upper case letters and /; e.g., b = B/.

CONSTANTS ON CARD	KEYS TO TOUCH	CONSTANTS ON CARD	KEYS TO TOUCH
	F ↑		
1024 . Log ₁₀ e = 444.7175495	E ↑		

Keyboard

1 The ON-OFF KEY is a dual purpose switch for both the ON and OFF positions. (Note: the OFF position automatically clears all stored data and instructions.)

2 The ERROR (red) LIGHT lights when the computer is turned on, and whenever the computer detects an operational error; e.g. exceeding capacity, division by zero.

3 The GENERAL RESET KEY erases all data and instructions from the computer and turns off the error light.

4 The CORRECT PERFORMANCE (green) LIGHT indicates the computer is functioning properly. A steady light indicates that the computer is ready for an operator decision; a flickering light indicates the computer is executing programmed instructions and that the keyboard is locked.

5 The DECIMAL WHEEL determines the number of decimal places to which computations will be carried out in the A register and the decimal places in the printed output, except for results from the R register.

8 The RECORD PROGRAM SWITCH, when ON (in), directs the computer to store instructions either in the memory from the keyboard, or onto a magnetic program card from the memory.

The RECORD PROGRAM SWITCH must be OFF (out) to load instructions from a magnetic program card into the memory.

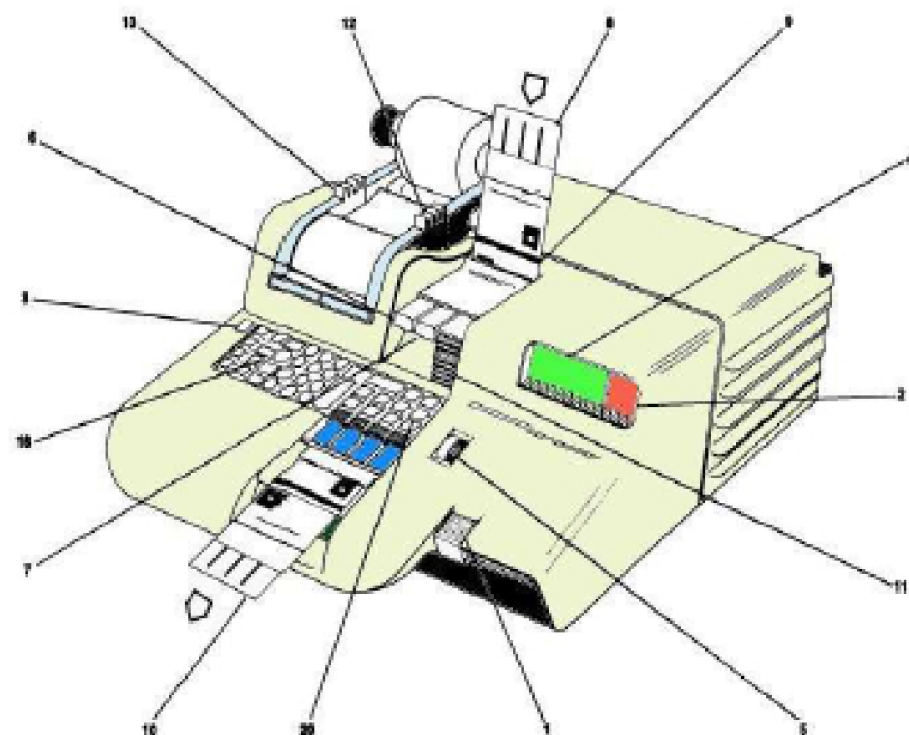
7 The PRINT PROGRAM SWITCH, when ON (in), directs the computer to print out the instructions stored in memory from its present location in the program to the next Stop instruction (5), whenever the Print key (20) is depressed.

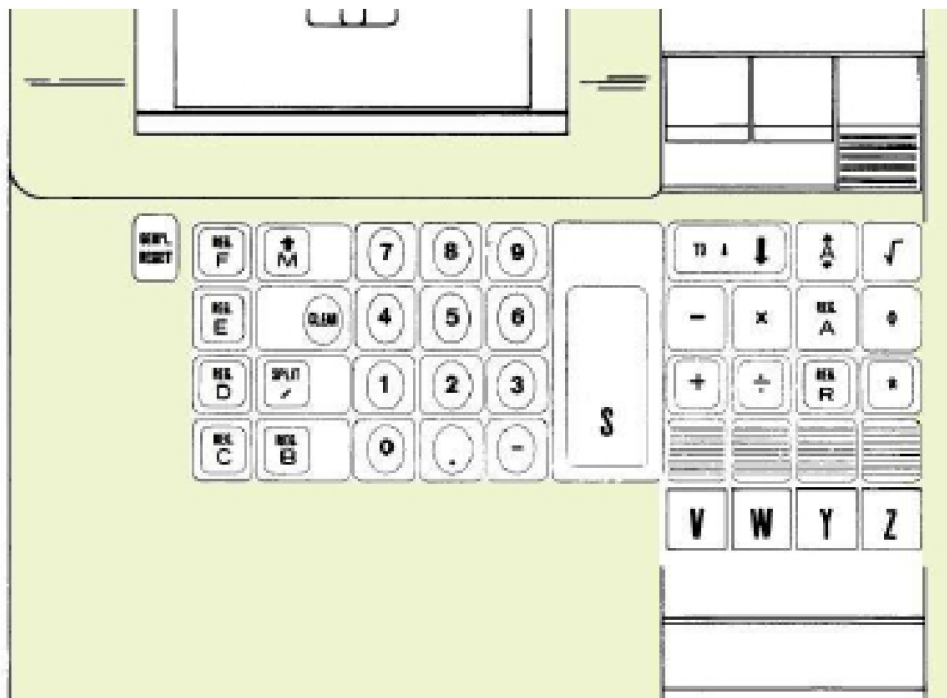
8 The MAGNETIC PROGRAM CARD is a plastic card with a ferrous oxide backing, used to record programs magnetically for external storage. The card is inserted into a read/write device (9) to record instructions and/or constants into or from the computer memory. Once inserted, the card may be removed from the computer (10) without disturbing the stored instructions.

(Note: the read/write device uses only half the magnetic card; consequently, two sets of 120 instructions and/or constants may be stored on a single card.) **11 The KEYBOARD RELEASE KEY** reactivates a locked keyboard. If two or more keys are depressed simultaneously, the keyboard will lock to indicate a misoperation. Because the operator does not know what entry was accepted by the computer, after touching the Keyboard Release key the Clear Entry key (16) **MUST** next be depressed and the complete figure re-entered.

12 TAPE ADVANCE advances the paper tape.

13 TAPE RELEASE LEVER enables precise finger-tip adjustment when changing tape rolls.





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olivetti underwood
PROGRAMMA 101

GENERAL REFERENCE MANUAL



Pour nous citer :

Base de la Mission nationale de sauvegarde et de valorisation du patrimoine scientifique et technique contemporain, PATSTEC, Mode d'emploi de la machine programmable Olivetti programma 101 (Olivetti), <https://www.patstec.fr/ressources/objets/detail?id=15792>, consulté le 2026-07-28