

# PROGRAMMING PERIPHERAL UNITS THROUGH THE OLIVETTI STANDARD INTERFACE

## OUTPUT INSTRUCTIONS

Prefix	
Reg	←
Sel	Lng

Numeric output with sign

/	←
Sel	Lng

Numeric output without sign (reg. M)

A/	←
Sel	Lng

Numeric output without sign (reg. A)

R	S
A/	←
Sel	Lng

Numeric output with editing

Prefix	
Reg	←
Sel/	Lng

Alphanumeric output

Sel/	S
	Char. Code

Single character output

R	S
(M)/	←
Sel	Lng

Output of NULL characters

R	S
(M)	←
Sel	Lng

Output of space characters

## INPUT INSTRUCTIONS

A	←
Sel	S

Numeric input up to data separator

(M)	←
Sel	Lng

Numeric input with length count

A	←
Sel	Lng

Numeric input with length check

A	←
Sel/	S

Alphanumeric input  
up to data separator

A	←
Sel/	Lng

Alphanumeric input  
with length count

B	←
Sel	S

Program input  
(first card side loading)

F	←
Sel	S

Program input  
(second card side loading)

## OTHER INSTRUCTIONS

R/	←
Sel	Com

Command to a peripheral unit

B	S
	Jump

Jump on peripheral unit condition

### PROGRAM INPUT INSTRUCTION CODING

Address		Operation	
	ISO Code Characters		ISO Code Characters
[M]	[@]	S	0
/	A	↓	1
R	B	↑	2
R/	C	↕	3
A	D	+	4
A/	E	-	5
B	F	x	6
B/	G	÷	7
C	H	◇	8
C/	I	*	9
D	J	←	÷
D/	K	√	:
E	L	√	<
E/	M	W	=
F	N	Y	>
F/	O	Z	?

The address M and its corresponding character @, which may be taken as implied and omitted, are shown in brackets.

### DATA LENGTH CODES

Code	Length
↓	1
↑	2
↕	3
+	4
-	5
x	6
÷	7
◇	8
*	9
←	10
√	11
√	12
W	13
Y	14
Z	15
S	See Text

### CODING OF ISO CHARACTERS

	0	1	2	3	4	5	6	7
	(M)	C	A	E	R	D	B	F
S	NUL	DLE	SPACE	0	@	P	'	P
↓	SOH	DC1	!	1	A	Q	a	q
↑	STX	DC2	"	2	B	R	b	r
↕	ETX	DC3	#	3	C	S	c	s
+	EOT	DC4	\$	4	D	T	d	t
-	ENQ	NAK	%	5	E	U	e	u
x	ACK	SYN	&	6	F	V	f	v
÷	BEL	ETB	,	7	G	W	g	w
◇	BS	CAN	(	8	H	X	h	x
*	HT	EM	)	9	I	Y	i	y
←	LF	SUB	*	:	J	Z	j	z
√	VT	ESC	+	:	K	[	k	}
√	FF	FS	,	<	L	\	l	
W	CR	GS	-	=	M	]	m	}
Y	SO	RS	.	>	N	^	n	~
Z	SI	US	/	?	O	-	o	DEL

### DATA SEPARATOR CODES

US: resume sequential execution  
 FS: jump to fV  
 GS: jump to fW  
 RS: jump to fY  
 CAN, EM, ESC: jump to fZ

### SELECTION OF PERIPHERAL UNITS

Input	Output
(M)	C
A	D
R	E
B	F

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