key tronic
T.M.

Principal cities worldwide

MODEL L1696	KEYBOARD
77 KEY ASR-37 EXPANDED 58 KEY ASR-37 EXPANDED	

ASR 37

STANDARD FEATURES

- Single +5 vdc input with TTL compatible outputs
- Gold flash for PCB connector
- N-key rollover
- Five mode ASCII encoded
- Time delay automatic repeat of all keys
- Two-shot molded gray keytops
- Sloped profile
- Off-the-shelf availability

OPTIONAL FEATURES

- PROM modification of the output codes

DESCRIPTION:

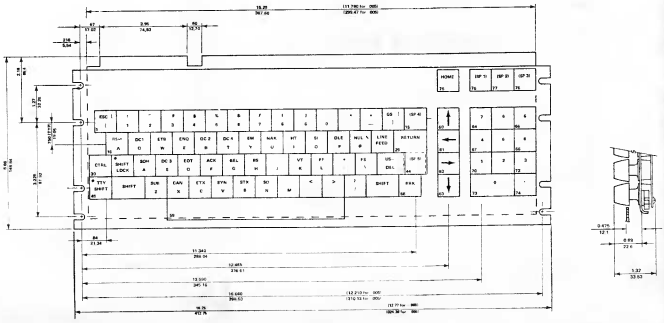
The 77 key Model L1696 provides the ASR 37 Teletype® format with all 128 ASCII characters plus a high speed numeric entry pad, five cursor control keys and four spare key positions for your custom use. This off-the-shelf design includes all of the standard features as well as the additional flexibility of inexpensively incorporating the optional features listed on this data sheet.

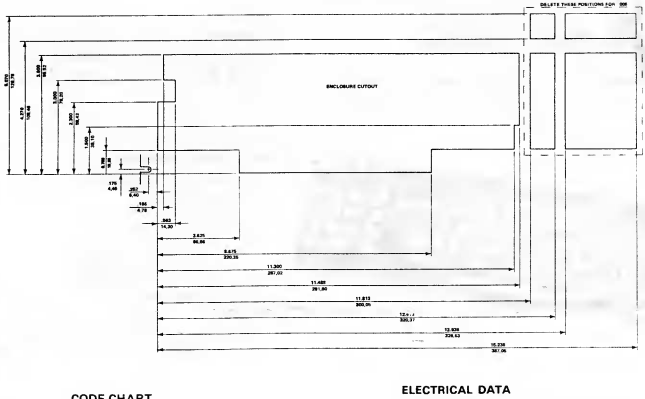
The keyswitches offer the standard travel and force of the popular electric typewriter. Capacitive switches assure 100 million minimum keystroke reliability. N-key rollover allows high speed operation.

Key Tronic Sales Representatives are located worldwide to assist you with your unique keyboard requirements. They have pricing, delivery and part number information on all of our standard designs, and can also work with you to specify a low cost custom keyboard to fit your special requirements.

APPLICATIONS:

The Model L1696 can be used anywhere the ASR 37 format is required.





ASR 37

CODE CHART

Key	Un-Shift	Shift	Un-Shift	TTY Shift	Control	Ctrl Shift
1	(	}	(	{	ESC	ESC
2	!	!	1	!	1	!
3	2	"	2	"	2	"
4	3	#	3	#	3	#
5	4	$	4	$	4	$
6	5	%	5	%	5	%
7	6	&	6	&	6	&
8	7	'	7	'	7	'
9	8	(	8	(	8	(
10	9	)	9	)	9	)
11	0	0	0	0	0	0
12	*	:	*	:	*	*
13	-	=	-	=	-	=
14	)	]	)	]	GS	GS
15	SPARE KEY #4 (DISCRETE)					
16	^	~	^	^	RS	RS
17	q	Q	Q	Q	DC1	DC1
18	w	W	W	W	ETB	ETB
19	e	E	E	E	END	END
20	r	R	R	R	DC2	DC2
21	t	T	T	T	DC4	DC4
22	v	Y	Y	Y	EM	EM
23	u	U	U	U	NAK	NAK
24	i	I	I	I	HT	HT
25	o	O	O	O	SI	SI
26	p	P	P	P	DLE	DLE
27	@	`	@	@	NUL	NUL
28	LF	LF	LF	LF	LF	LF
29	CR	CR	CR	CR	CR	CR
30	CONTROL/INTERNAL FUNC					
31	SHIFT LOCK – INT FUNC					
32	a	A	A	A	SOH	SOH
33	s	S	S	S	DC3	DC3
34	d	D	D	D	EOT	EOT
35	f	F	F	F	ACK	ACK
36	g	G	G	G	BEL	BEL
37	h	H	H	H	BS	BS
38	j	J	J	J	LF	LF
39	k	K	K	K	VT	VT

Key	Un-Shift	Shift	Un-Shift	TTY Shift	Control	Ctrl Shift
40	l	L	L	L	FF	FF
41	;	+	;	+	;	+
42	\	|	\	\	FS	FS
43	DEL	—	DEL	—	US	US
44	SPARE KEY #5 (Opt: N.A. on Std)					
45	TTY LOCK – INTERNAL FUNC.					
46	SHIFT – INTERNAL FUNCTION					
47	z	Z	Z	Z	SUB	SUB
48	x	X	X	X	CAN	CAN
49	c	C	C	C	ETX	ETX
50	v	V	V	V	SYN	SYN
51	b	B	B	B	STX	STX
52	n	N	N	N	SO	SO
53	m	M	M	M	CR	CR
54	,	<	,	<	,	<
55	.	>	.	>	.	>
56	/	?	/	?	/	?
57	SHIFT – INTERNAL FUNCTION					
58	SPARE KEY #6 (DISCRETE)					
59	SP	SP	SP	SP	SP	SP
60	SI	SI	SI	SI	SI	SI
61	BS	BS	BS	BS	BS	BS
62	SO	SO	SO	SO	SO	SO
63	LF	LF	LF	LF	LF	LF
64	7	7	7	7	7	7
65	8	8	8	8	8	8
66	9	9	9	9	9	9
67	4	4	4	4	4	4
68	5	5	5	5	5	5
69	6	6	6	6	6	6
70	1	1	1	1	1	1
71	2	2	2	2	2	2
72	3	3	3	3	3	3
73	0	0	0	0	0	0
74						
75	VT	VT	VT	VT	VT	VT
76	SPARE KEY #1 (DISCRETE)					
77	SPARE KEY #2 (DISCRETE)					
78	SPARE KEY #3 (DISCRETE)					

* Bit 8 is nonfunctional unless a PROM is installed.

ELECTRICAL DATA

Input power . . . . . + 5 vdc
Rollover . . . . . N key
Data output . . . . . 7 bit parallel ASCII (+ or - logic)
Strobe . . . . . Pulsed (+ or - logic)

MECHANICAL DATA

Total key travel . . . . . 0.171 in (0.434 cm) nominal
Key force . . . . . 2.5 oz. (70.88 gr) nominal
Keytop color . . . Dark gray (Cycolac 3500)
with black (Cycolac 4500) Control keys
Keyswitch reliability . . > 100 million MCBF

CONNECTOR DETAIL

PIN	FUNCTION	PIN	FUNCTION
1	BIT 1	A	BIT 1
2	BIT 2	B	BIT 2
3	BIT 3	C	BIT 3
4	BIT 4	D	BIT 4
5	BIT 5	E	BIT 5
6	BIT 6	F	BIT 6
7	BIT 7	H	BIT 7
8	BIT 8*	J	BIT 8*
9	+ 5 vdc	K	+ 5 vdc
11	Ground	M	Ground
12	Strobe	N	Strobe
13	SP1	P	SP1
14	SP2	R	SP2
15	SP3	S	SP3
16	SP4	T	SP4
17	SP5 (option)	U	SP5 (option)
18	SP6	V	SP6

Recommended Connector

Cinch P.N. 251-18-30-160 or equivalent.

ORDERING INFORMATION:

When ordering, refer to Key Tronic part number 65-01696-01 for 77 keys, and 65-01696-05 for 58 keys. For pricing and availability, consult our nearest representative located in principal cities, worldwide.

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