Standard-Tastatur MAX-II

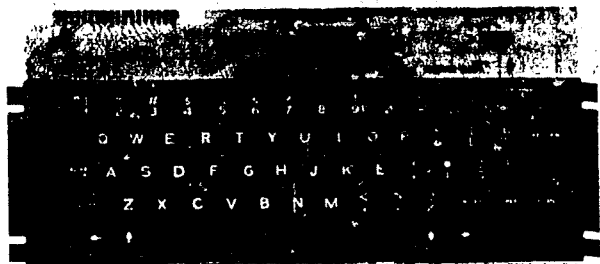## Maxi-SWITCH CO.

*Built to commercial standards

*Parallel or Serial output **(Serial 300 Baud)**

*One or Two STOP BITs

*Positive or Negative STROBE

*Marking High or Low

*Optional RS-232 Driver (SN75150)

MAX-11 is a Microcomputer based 6000 series keyboard from Maxi-Switch which represents an important advancement in keyboard technology. This new design concept uses microcomputer power to greatly enhance keyboard performance, while adding features and functions not possible with conventional designs.

MAX-11 gives all 128 USASCII characters in a 60 key format. No multiple closures are needed for important functions because MAX-11 has discrete keys for "carriage return", "line feed", "escape", and "repeat", The "repeat" key can be used as an extra function key when the auto-repeat option is used. On the MAX-11 the user can field program in through the addition of diods to select Parallel/Serial output, One or Two stop bits, Positive or Negative going strobe and logic. Further, the Serial output can be routed into an SN75150 (optional) to generate an RS-232 (transmit only) output – this will require the two RS-232 voltages −12V and +12V dc.

"Alpha Lock", when depressed, causes all 26 Alpha keys to output Upper Case characters in both the shifted and the unshifted modes. The Cursor keys and HOME are optional but are already masked on the microcomputer chip. The MAX-11 is provided with standard double-shot keytops in charcoal grey. The switches are low profile, and contain gold plated contacts for low contact resistance and long life.

The Serial output (pin W) is selected when diod CR5 is resident. The baud rate is 300 bauds fixed (above the speed of human writing cycle). If the RS-232 standard chip is not added (the SN75150) the a jumper between pin 1 and pin 7 of the IC socket must be added for proper operation.

*Note: These voltages are required for a full RS-232 operation.

Max Specifications

Circuit Board	.062-inch commercial grade material	
Switches	Pre-Travel	.050" (1.27 mm)
	Over-Travel	.070" (1.77 mm)
	Total Travel	.120-in. ± .017-in. (.3 cm ± .04 cm) nom.
	Op. force	3.5 oz. standard ± 1 oz. (100 ± 30 gr.)
Contact Bounce	make/break in less than 3 msec.	
Contact Rating	12VDC, 0.1 amp.	
Initial Contact Resistance	<1Ω max.	
Contact Life	in excess of 10 million operations	
Weight	1.25 lbs (566 gr)	
Temperature	−10° C to +60° C operating −20° C to +70° C non-operating Humidity up to 90% RH	
Interlock	standard 2-key rollover	
Strobe	positive & negative, 20 microsecond pulse on initial key closure	
Repeat	Provides internal repeat at 10 characters-per-second	

Electrical
- Drive capability 1-7400 Series TTL gate load
- Pulse Strobe Mode – strobe pulse width – 20 microseconds nominal
- Depression of REPEAT and a DATA KEY causes repeat at Strobe Repeat frequency
- Logic convention: positive outputs normally latched, last code left on data buss "1" = 2.4 to 5.25 VDC "0" = −1.7 to +0.4 VDC
- Power +5V, ± .25V 90ma.
- Fan out = 1

Output Pin Assignment

A	FUNCTION 2		N	Bit 2
B	FUNCTION 2		P	Bit 1
C	FUNCTION 1		R	+5V
D	FUNCTION 1		S	Ground
E	FUNCTION 3		T	+12V
F	Strobe		U	−12 V
H	Bit 6		V	
J	Bit 7			
K	Bit 5			
L	Bit 4			
M	Bit 3			

Lagertypen Bestell-Bezeichnung	sFr. pro Stück bei		
	1	5	10
MAXIT	249.00	222.45	204.20
MAXII C	306.00	273.35	250.90