

SMART KEYBOARD

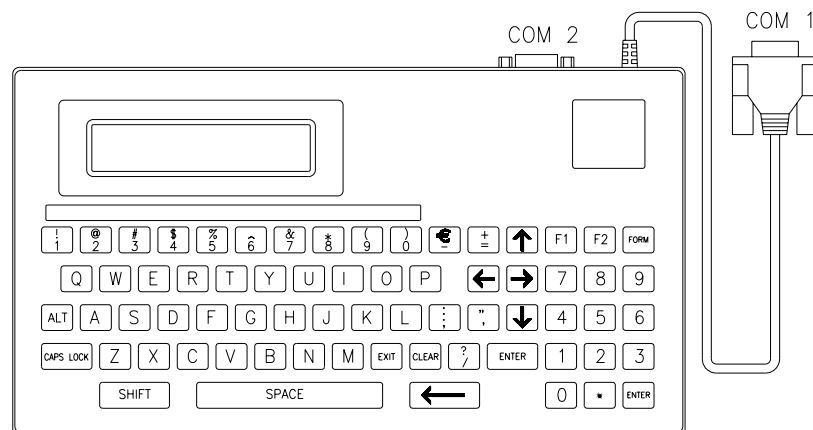
**PROGRAMMABLE PRINTER
CONTROLLER**

**USER'S
MANUAL**

Outline of the SMART KEYBOARD

Thank you for purchasing the SMART KEYBOARD printer controller. The SMART KEYBOARD is a versatile, portable controller unit that is used to print labels on your bar code printer. The controller eliminates the need to connect your bar code printer to a computer, facilitating true stand-a-lone operation. The feature rich SMART KEYBOARD has built in on-line editing, file management, real time clock (Y2K compliant), Euro logo, and the BASIC like language interpreter. With its BASIC like language, it is easy to process data received from the input port to produce labels on your bar code printer. The SMART KEYBOARD is equipped with two (2) RS-232 interfaces. The serial interfaces offer two way communication to easily send data to and from the SMART KEYBOARD.

With the large keypad design, it is easy to type in data for your labels or perform standard operations on the SMART KEYBOARD. There is ample 128Kb memory available to download programs and data. No matter where you go, just connect SMART KEYBOARD to the printer. You will accomplish your jobs conveniently and easily.



Key Features of the SMART KEYBOARD

- 68 keys, large keypad layout
- Big LCD screen (20 characters × 2 lines)
- Additional RS-232 port for second input device
- Maximum 50 files can be stored in memory
- Upload or download files through both serial port
- Real Time Clock (Y2K compliant)
- Built-in Euro logo (ASCII 176, 177)
- Floating point calculation capable
- Password locking security
- Auto execution function

Specifications

Keyboard Unit

Size	261mm(L)×142.2mm(W)×31mm(H)
Weight	440g
LCD	20 characters × 2 lines
Max Current	5V, 250mA
External Power	5V, 150mA
Operating Temperature	40°F~104°F (5°C~40°C)
Storage Temperature	-4°F~140°F (-20°C~60°C)

Memory

FLASH	512 KB for system, 1 MB for application
SRAM	128 KB for system, 128 KB for application

Communication Interface

The available communication parameters for both 2 serial ports are listed below:

Baud rate: 2400, 4800, 9600, 19200 bps

Parity check: none, even or odd

Data bits: 7 or 8

Stop bit(s): 1 or 2

The serial interface COM1 is a 9-pin male, D-style, subminiature connector with integrated cable. The pin assignments are shown as below:

SMART KEYBOARD COM1		SMART KEYBOARD COM2	
Pin	Configuration	Pin	Configuration
1	Power input 5 volts, 250mA	1	Power input 5 volts, 250mA
2	RxD	2	TxD
3	TxD	3	RxD
4	DTR	4	DSR
5	Ground	5	Ground
6	DSR	6	DTR
7	RTS	7	CTS
8	CTS	8	RTS
9	Connect with Pin1 internally	9	Connect with Pin1 internally

Safety Regulations

FCC Class A

CE EMC

Check-List

Verify the contents of the packaging according to the list below. If any parts are missing, please contact your local representative.

- One SMART KEYBOARD unit
- SMART KEYBOARD User's Manual
- Three pages of special character table
- One 25 pin to 9 pin RS-232 converter
- Two screws for SI thread

Options

External power set:

- AC adapter
Input: 110V AC or 220V AC
Output: 5V DC
- RS-232 cable with power adapter jack

Keyboard Setup

The integrated cable/connector on the SMART KEYBOARD is defined as COM1. COM1 generally will be plugged into your printer's serial port. Use the 25 to 9 pin converter if the printer's serial port is a 25 pin connector. To avoid any possible damage to the SMART KEYBOARD, please turn off the printer's power prior to connecting the keyboard to the COM1 port on the printer. The SMART KEYBOARD gets its power from the printer through this cable from the printer port. If the SMART KEYBOARD does not turn on when the printer is powered up, then the optional AC adapter may be required.

The open COM2 port on the SMART KEYBOARD is used for downloading programs (or data files) from your computer. Connect the serial cable to COM2 on the SMART KEYBOARD. Then connect the other end to an open serial port on your computer. Programs and data files can now be downloaded to the SMART KEYBOARD for label generation. After COM2 has been used to download your programs from the computer, it can now be connected to an input device such as a bar code scanner. To use COM2 as an input port, your loaded program must be written to properly read data in from the COM2 port.

- The information contained herein is subject to change without notice.
- Reproduction of this manual either in part or its entirety is forbidden.
- Note that the manufacturer assumes no responsibility for any injury or loss incurred while using this manual.

Country Code and Keyboard Layout

Country Code	Keyboard Layout									
001	ALT+1	ALT+2	ALT+3	ALT+4	ALT+5	ALT+6	ALT+7	ALT+8	ALT+9	ALT+0
002	ALT+1	ALT+2	ALT+3	ALT+4	ALT+5	ALT+6	ALT+7	ALT+8	ALT+9	ALT+0
	É	μ	£	¢					½	¼
003	ALT+1	ALT+2	ALT+3	ALT+4	ALT+5	ALT+6	ALT+7	ALT+8	ALT+9	ALT+0
	Ñ	ñ							½	¼
031	ALT+1	ALT+2	ALT+3	ALT+4	ALT+5	ALT+6	ALT+7	ALT+8	ALT+9	ALT+0
	Ä	ä	£	ë	μ	Ö	ö	Ü	½	¼
032	ALT+1	ALT+2	ALT+3	ALT+4	ALT+5	ALT+6	ALT+7	ALT+8	ALT+9	ALT+0
	é	è	£	Ç	μ	à	ù	â	ê	í
033	ALT+1	ALT+2	ALT+3	ALT+4	ALT+5	ALT+6	ALT+7	ALT+8	ALT+9	ALT+0
	à	é	£	è	μ	ù	Ç			
034	ALT+1	ALT+2	ALT+3	ALT+4	ALT+5	ALT+6	ALT+7	ALT+8	ALT+9	ALT+0
	<u>a</u>	<u>o</u>	Ñ	Ç	ç	ñ				
036	ALT+1	ALT+2	ALT+3	ALT+4	ALT+5	ALT+6	ALT+7	ALT+8	ALT+9	ALT+0
	ä	ß	é	ú	ó	Ü	ü	Ö	ö	
038	ALT+1	ALT+2	ALT+3	ALT+4	ALT+5	ALT+6	ALT+7	ALT+8	ALT+9	ALT+0
	ä	ß	é	ú	ó	Ü	ü	Ö	ö	
039	ALT+1	ALT+2	ALT+3	ALT+4	ALT+5	ALT+6	ALT+7	ALT+8	ALT+9	ALT+0
	à	ù	£	é	è	ò	Ç			
041	ALT+1	ALT+2	ALT+3	ALT+4	ALT+5	ALT+6	ALT+7	ALT+8	ALT+9	ALT+0
	à	ä	£	¢	è	é	ü	Ö	Ç	
042	ALT+1	ALT+2	ALT+3	ALT+4	ALT+5	ALT+6	ALT+7	ALT+8	ALT+9	ALT+0
	ä	ß	é	ú	ó	Ü	ü	Ö	ö	
044	ALT+1	ALT+2	ALT+3	ALT+4	ALT+5	ALT+6	ALT+7	ALT+8	ALT+9	ALT+0
	,		£						½	¼
045	ALT+1	ALT+2	ALT+3	ALT+4	ALT+5	ALT+6	ALT+7	ALT+8	ALT+9	ALT+0
	Å	å	£	Æ	æ	ø	Ø		½	¼
046	ALT+1	ALT+2	ALT+3	ALT+4	ALT+5	ALT+6	ALT+7	ALT+8	ALT+9	ALT+0
	Å	å	£	Ä	ä	Ö	ö		½	¼
047	ALT+1	ALT+2	ALT+3	ALT+4	ALT+5	ALT+6	ALT+7	ALT+8	ALT+9	ALT+0
	Å	å	£	Æ	æ	ø	Ø		½	¼
048	ALT+1	ALT+2	ALT+3	ALT+4	ALT+5	ALT+6	ALT+7	ALT+8	ALT+9	ALT+0
	ä	ß	é	ú	ó	Ü	ü	Ö	ö	
049	ALT+1	ALT+2	ALT+3	ALT+4	ALT+5	ALT+6	ALT+7	ALT+8	ALT+9	ALT+0
	Ä	ä	Ü	ü	Ö	ö	ß	μ		

055	ALT+1	ALT+2	ALT+3	ALT+4	ALT+5	ALT+6	ALT+7	ALT+8	ALT+9	ALT+0
	<u>a</u>	<u>o</u>	£	Ç	ç					
061	ALT+1	ALT+2	ALT+3	ALT+4	ALT+5	ALT+6	ALT+7	ALT+8	ALT+9	ALT+0
351	ALT+1	ALT+2	ALT+3	ALT+4	ALT+5	ALT+6	ALT+7	ALT+8	ALT+9	ALT+0
	<u>a</u>	<u>o</u>	£	Ç	ç					
358	ALT+1	ALT+2	ALT+3	ALT+4	ALT+5	ALT+6	ALT+7	ALT+8	ALT+9	ALT+0
	Å	å	£	Ä	ä	Ö	ö		½	¼



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