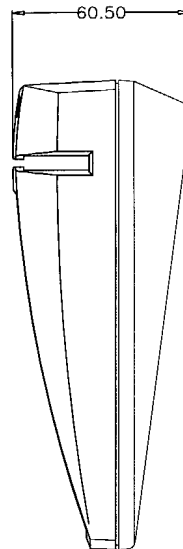
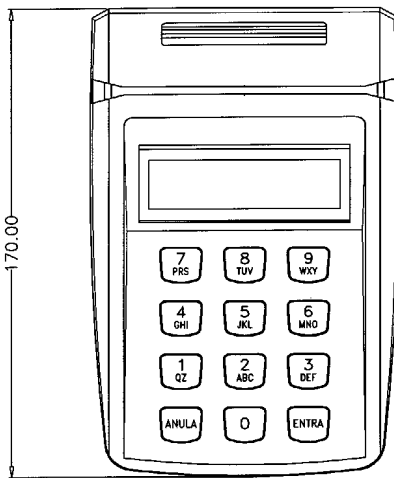
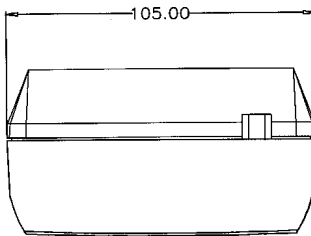


KB12LM-xx

Pin-pad Terminal User's manual



KB12LM Pin-pad Terminal

Features:

- 1) Palm size.
- 2) All in one pin-pad include Keyboard, Magnetic stripe reader and Display.
- 3) Provide Magnetic Stripe Reader : manual swipe be-direction, easy to use.
- 4) Provide LCD Display: dot matrix and back light, easy to read.
- 5) Keyboard: big key and back light, easy to use.
- 6) Esc command.
- 7) RS232c interface.
- 8) Easy to install , get power from PC

KB12LM Pin-pad Terminal

GENERAL SPECIFICATIONS

1) Key Board

Key type: Rubber Key

Key matrix: 3 columns x 4 rows

Key code: "0" – "9" , "G" and carriage return

Back light: LED back light

2) Display

Display method: Liquid Crystal display

Number of character: 16 columns x 2 lines

Display font: 96 alphanumeric

3) Card Reader

Reader type: Manual swipe magnetic stripe reader

Card type: Magnetic card

Card standard: ISO 7811/2

4) Interface

Type: RS-232c

Baud rate: 9600 bps

Data bit: 8 bits

Parity: non parity

Stop bit: 1 bit or more

5) Power supply

Power voltage: 9-12 Vdc

Power consumption: 3 Walt

KB12LM Pin-pad Terminal

ORDERING INFORMATION

Model	LCD 16x2	Keypad	Track I	Track II	Track III
KB12LM-1					
KB12LM-2					
KB12LM-3					
KB12LM-5					
KB12LM-6					

KB12LM Pin-pad Terminal

COMMAND

HOM **/Move cursor to home position/**

Dec. [011]

Format

Hex. [0Bh]

Format

Description Moves the cursor to the left-most position of the upper line

CLR **/Clear display screen , and cursor to home/**

Dec. [012]

Format

Hex. [0Ch]

Format

Description Clear display screen , and cursor to home

CR **/Move cursor to lower line left-most position/**

Dec. [013]

Format

Hex. [0Dh]

Format

Description Moves the cursor to the left-most position on the lower line.

CURB **Cursor on and bottom bar**

Dec. [017]

Format

Hex. [11h]

Format

Description Cursor on and bottom bar

CURH **Cursor on and block all**

Dec. [018]

Format

Hex. [12h]

Format

Description Cursor on and block all

CURC **Cursor off**

Dec. [019]

Format

Hex. [13h]

Format

Description Cursor off

DC4 **/ Sounds a short beep /**

KB12LM Pin-pad Terminal

Dec. [020]

Format

Hex. [14h]

Format

Description Sounds a short beep, 0.2 sec.

KB12LM Pin-pad Terminal

BEP n / Sound 4 times short beep /
Dec. [007] n
Format
Hex. [07h] n 1 <= n <= 10
Format
Description Sound n times short beep and pulse interval is 0.15 sec and break is 0.15 sec.

DC6 / Enable keyboard beep echo /
Dec. [022]
Format
Hex. [16h]
Format
Description Enable beep echo to valid key press.

DC7 / Disable keyboard beep echo /
Dec. [023]
Format
Hex. [17h]
Format
Description Disable beep echo to valid key press.

DC8 / Valid key press echo to LCD /
Dec. [024]
Format
Hex. [18h]
Format
Description Valid key press is transmit to Host and show to display

DC9 / Valid key press not echo to LCD /
Dec. [025]
Format
Hex. [19h]
Format
Description Valid key press only transmit to Host

ESC “m” n / enable or disable card reading/
Dec. [027] [120] n 30h<=n<=31h
Format
Hex. [1Bh] [78h] n
Format
Description Enable or disable card reading
N=30h, disable n=31h, enable

ESC “k” n / enable or disable Key board scanning/

KB12LM Pin-pad Terminal

Dec. [027] [120] n 30h<=n<=31h
Format
Hex. [1Bh] [78h] n
Format
Description Enable or disable key board scanning
N=30h, disable n=31h, enable

KB12LM Pin-pad Terminal

ESC “h” n / Key board back light brightness adjustment /

Dec. [027] [120] n 30h<=n<=37h

Format

Hex. [1Bh] [78h] n

Format

Description Adjusts the **back light** brightness of key board

The brightness is $n * 12.5\%$

When n = 30h , brightness = off

When n = 31h , brightness = 12.5%

When n = 32h , brightness = 25% eg

ESC x n / Set transmit MSR data package / (except KB18LD-X0)

Dec. [027] [120] n 30h<=n<=33h

Format

Hex. [1Bh] [78h] n

Format

Description Set transmit MSR data package

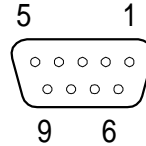
n=30h, normal n=31h, data + CR

n=32h, “[data ”] n=33h, “[data ”] + CR refer 3

KB12LM Pin-pad Terminal

INTERFACE SPECIFICATIONS

Connector type : D-sub 9 pin (Female)



No	Signal	Direction	Function description
2	TXD	To PC/Host	Transmit data
3	RXD	From PC/Host	Receive data
4	DSR	From PC/Host	PC/Host ready signal
5	GND	-	Signal ground
6	DTR	To PC/Host	Pin pad ready signal

Connector type : DC-plug



No	Signal	Direction	Function description
	VPP	From adapter	9-12Vdc,250mA
	GND	From adapter	-