



**P14A** •



P i n p a d

● Rubber Conducting Pinpad



**P14B** •

# P14A/P14B Conducting Rubber Pinpad

## Applications

Heng Yu P14A/P14B pinpad family are mainly used as pin input devices for banks, POS terminals, payment centers and securities. Typical applications are as below:

- Point of Sale PIN input device
- Password pinpad in the bank counters
- Access Control PIN input device
- Stock price checking pinpad in securities houses
- Manufacturing control instrument input device
- Road toll input device

## Main Features

- Numeric keys with additional 4 **user customized** keys
- Using high quality conducting rubber, operating life of individual keys > 5 million operations
- Equipped with password-shield, protecting the pin from being seen during input
- With several value added functions available
- Support many connecting interfaces
- Power can be retrieved from the keyboard port for RS232 interface

## Value-added Functions

- Red/Green LED indicators
- 122x32 Dot matrix LCD (only for P14B)
- LCD with fixed display message (only for P14A)
- Fixed voice hint for operation guide
- External control box
- 64-bit DES encryption
- User smart card terminal module (only for P14B)
- Plug-in SAM card modules (up to three, only for P14B)

## SmartCard Terminal Module

- User card reader can be mounted vertically
- Up to 3 internal card readers for plug-in SAM cards can be fitted into the underside of keypad
- Positioning of card contacts complies with ISO 7816/2
- Push-pull card reader with spring-loaded contacts
- MTBF is 200,000 read cycles for user card reader and 5,000 for SAM card reader

## Product Codes

P14 Main Code	X Sub Code	X <sub>1</sub> X <sub>2</sub> X <sub>3</sub> X <sub>4</sub> X <sub>5</sub> Function Configuration	X Interface
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### Sub Code

Outlook Design: A,B

### Interface

- |   |  |
|---|--|
| 1 | RS232                                      |
| 2 | RS232, retrieving power from keyboard port |
| 3 | TTL  |
| 4 | 5-pin DIN                                  |
| 5 | 6-pin mini DIN (PS/2)                      |
| 6 | USB  |

- Electrical characteristics comply with ISO 7816/3; active short-circuit breaker protects smartcard by deactivating interface
- Data is transferred to the PC through the serial port

## DES Encryption

- With 16 pairs of master and working keys
- Keys can be downloaded from the host
- Working keys are encrypted by the corresponding master keys
- PINs are encrypted by the working key, after the master key having been activated

## Technical Specification

### Electronics

- Different baud rates are available
- Interface: RS232C, TTL, 5-pin DIN, 6-pin MINI-DIN (PS/2), USB
- Power Supply: 5V/DC  $\pm 10\%$
- Current input: less than 100mA

### Others

- Storage temperature:  $-40^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$
- Operating temperature:  $0^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$
- Humidity: 20% to 90%, non-condensing

	Dimension (LxWxH, mm)	Weight (g)
P14A	160x100x115	295
P14B	160x100x85	310

## Other Features

- Command sets can be user-customized
- Scan codes can be user-customized

## Function Configuration

- X<sub>1</sub>: G (with Red/Green LED indicators)  
M (with Dot matrix LCD),  
L (LCD with fixed display message)
- X<sub>2</sub>: S (with fixed voice hint)
- X<sub>3</sub>: D (with DES encryption)
- X<sub>4</sub>: C (with external control box)
- X<sub>5</sub>: R1 (with smart card reader, no SAM card reader)  
R2 (with smart card reader, one SAM card reader)  
R3 (with smart card reader, two SAM card readers)  
R4 (with smart card reader, three SAM card readers)

Note: Replace the value by N when the function is not required and X<sub>5</sub> is only applied for P14B

e.g.) MSNNR2 means having a dot matrix LCD, fixed voice hint, one smart card reader, one SAM card reader

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