



P12A



P17A



P22A



P12A/P17A/P22A Mechanical Pinpad

Applications

Heng Yu mechanical pinpad family are mainly used as pin input devices for banks, POS terminals, payment centers and securities. The keys on the pinpad can be completely customized according to the user requirements. 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 **user customized** keys
- Pinpad keys are using Cherry MX keys based on Gold Crosspoint technology, and have tactile feeling
- Two different key actions (soft contact and keyclick)
- Laser-engraved keycap symbols are wear-resistant and easy to clean
- Operating life cycle of individual keys:
 - Soft contact mode: 50 million strokes
 - Key click mode: 20 million strokes
- Damaged keys can be easily replaced and hence save the replacement cost
- Support many connecting interfaces
- Power can be retrieved from the keyboard port for RS232 interface

Value-added Functions

- Red/Green LED indicators
- Fixed voice hint for operation guides
- 64-bit DES encryption

Product Codes

PXX Main Code	A Sub Code	X ₁ X ₂ X ₃ Function Configuration	X ₁ X ₂ Technical Design
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Main Code

P12 12 keys
P17 17 keys
P22 22 keys

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

Interface: RS232C, TTL, 5-PIN DIN,
6-PIN MINI-DIN (PS/2),USB
Power supply: +5V/DC \pm 10%
Current input: <100mA

Mechanical

Total travel: 4 – 0.4mm
Pretravel: 2 \pm 0.6mm
Peak load before make: 60 \pm 20cN

Others

Storage temperature: -40°C to +60°C
Operating temperature: 0°C to +50°C
Operating humidity: 20% to 90%

	Dimensions (LxWxH, mm)	Weight (g)
P12A	140x92x34	270
P17A	150x103x32	280
P22A	150x105x32	295

Technical Design

- X₁ S (soft contact key switch)
K (keyclick key switch)
X₂ 1 (RS232)
2 (RS232, retrieving power from keyboard port)
3 (TTL)
4 (5-pin DIN)
5 (6-pin mini DIN PS/2)
6 (USB)

Function Configuration

- X₁: G (with Red/Green LED indicators)
X₂: S (with fixed voice hint)
X₃: D (with DES encryption)

Note: Replace the value by N when the function is not required

e.g.) GSN mean having LED indicators and voice hint

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