

**PA1220**  
**RF KEYPAD CARD READER**  
**USER MANUAL**

**Rev. B**

**Platinum Access Systems Inc.**

## SPECIFICATIONS AND FEATURES

### 1. Key Code Range

5 digit code: 00000-99999  
4 digit code: 0000-9999  
Memory Capacity: 10,000 (4 digit), 100,000 (5 digit) codes

### 2. RFID Card Reader

Card Code Capacity: 2000 Cards

### 3. Keypad

Keys: 0-9, "\*" start over, "#" command code  
Key entry timeout: 15 sec (uncompleted key code will be ignored in 15 sec idle period.)

### 4. RF Remote Control

Working with Platinum RF receiver to provide >50ft remote control.

### 5. Hold Open Code

Resettable 5 digit code to turn on/off hold open operation.

### 6. Request to Exit Input

A contact input for codeless open activation..

### 7. Adjustable Control Output Strike Duration

0-99s output relay and RF control strike duration.

### 8. Slave Mode

It can be set to slave mode to work with master. All codes entered will be send back to master to verify, Master will send gate open command upon valid key code. 99 slave ID's can be set with on board rotary switch.

### 9. Backlit Key

Back light of the keys will be turn on automatically when the environmental light is dimmed.

### 10. Control Output

- NO/NC relay output with 10Amp @ 120VAC or 8A @ 30VDC.
- Solid state output with 0.5A sink current.

### 11. Battery Backup

Internal rechargeable battery provides >24 hours power backup.

### 12. Solar Panel Ready

A 12V/20W solar panel can be connected to power the unit and charge the battery for AC power free operation.

## INSTALLATION

### 1. Wiring

See Fig.1.

- Connect 9V/2A AC/DC adaptor to "AC/DC" terminals.
- Connect solar panel to "SOL" terminals.
- Connect the internal battery to either "BAT1" or "BAT2" terminal.
- Connect NC/COM/NO to external device under control.
- Connect "EXIT" to external strike open switch.
- Connect RS485 cable from master to either of the RS485 terminals.

### 2. Set the Mode DIP Switch

- Set 4 or 5 digit length operation by "DIG" side DIP SW.
- Set master/slave by side "M/S" side DIP SW "M" or "S".

### 3. Set the Slave Device ID

Set slave device ID by the 2 rotary decimal SW. set range 00-99.

### 4. Indicator and Mode Switch Locations

See Fig.2.

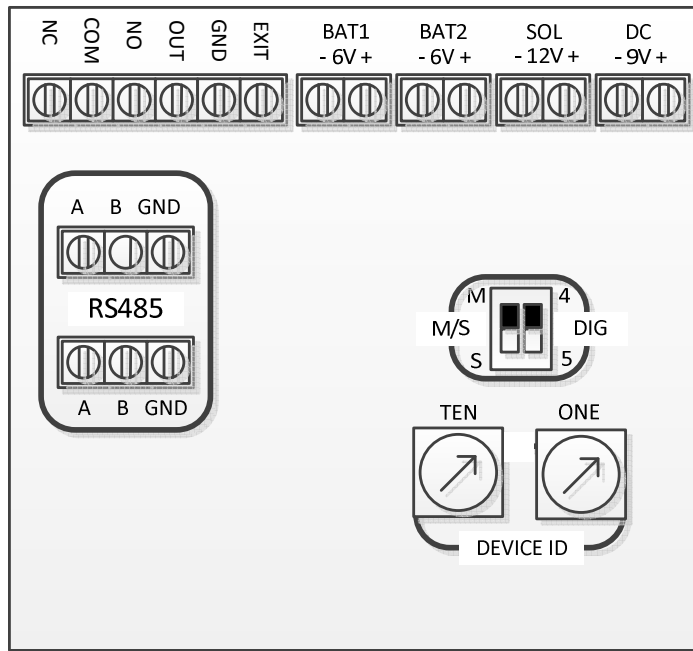


Fig.1

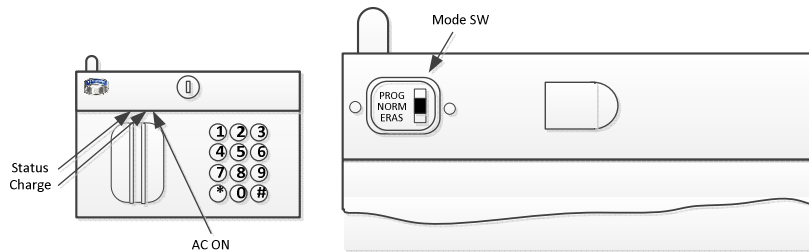


Fig.2

## OPERATIONS

### 1. Normal Mode

Selected by Mode SW (“**NORM**” position), "Red" light flash

- a. To open gate by key code, enter 4 or 5 key code.
- b. To open gate by card, sweep card to activate control relay.
- c. To hold open, enter #3xxxxx. xxxxx: 5 digit code (00000-99999)
- d. To release hold open, enter #3xxxxx again.

Status:

Beeping twice with green light: Success

Beeping once: Code is not match

### 2. Program Mode

Selected by Mode SW (“**PRGM**” position), "Yellow" light on.

**Program Key Code:** Enter 4 or 5 key code

**Program Card without Card ID:** Sweep card.

**Program Card with Card ID:** Enter card ID, #5xxxx (xxxx: 0000-1999 card ID), Then sweep RFID card to program the card code into ID 0000-1999.

Note: Sweep RFID card one by one sequentially, the card ID will automatically increase by 1.

Status:

Beeping twice with green light: Program success

Beeping once with red light: Program fail

**Program Command:**

- a. RF receiver control channel (default ch1, receiver relay channel)

#101 Control ch1

#102 Control ch2

#103 Control ch3

#104 Control ch4

b. Control output strike duration (default 1s)

#2xx      xx: 00-99s

c. Hold open code

#3xxxxx      xxxxx: 5 digit code (00000-99999)

### 3. Erase Mode

Selected by Mode SW (“ERAS” position), "Yellow" light flash.

**Erase Key Code:** Enter 4 or 5 key code

**Erase Card Code without Card ID:** Sweep the card.

**Erase Card with Card ID:** Enter card ID #5xxxx.

xxxx: 0000-1999 card ID

#### Erase Command:

#911      Erase all codes

#913      Erase hold open code

Status:

Beeping twice with green light: Erase success

Beeping once with red light: Erase fail

### 4. Program RF Receiver

Platinum RF receiver needs to be programmed to save the RF control code of this unit.

a. Set the unit to “NORM” mode.

b. Program one card per the steps above.

c. Place RF receiver close to this unit, Turn on RF receiver power.

d. Open RF receiver cover and locate the programming button.

e. Push the programming button in RF receiver.

f. When the programing LED is on in RF receiver, sweep the card.

g. When the programming is done, the programming LED will go off.

h. Sweep the card again, and check the relay in receiver is activated.

i. If the programming is unsuccessful, repeat step d to g.

### 5. Slave Mode

When the unit is set to “SLAVE” mode, all key and card will sent to master to process. Master will send “Open Gate” command upon valid code.

### 6. EXIT Input

“EXIT” input will activate control output at any time.