# Star PIN120

# PINPAD Single Door Access Controller







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#### 1. Important Safety Instructions

When using your Single Door Controller, basic safety precautions should always be followed to reduce the risk of fire, electrical shock, and injury to persons. In addition, the following should also be followed:

- 1. Read and understand all instructions.
- 2. Follow all warnings and instructions marked on the product.
- 3. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning. If necessary, use mild soap.
- 4. Do not use this product near water, such as bath-tub, wash bowl, kitchen sink, laundry tub, in a wet basement, or swimming pool.
- 5. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your installation site, consult your dealer or local power company.
- 6. Never push objects of any kind into this product or through the cabinet slots as they may touch voltage points or short out parts that could result in fire or electric shock. Never spill liquid of any kind on the product.
- 7. To reduce the risk of electric shock, do not disassemble this product by yourself, but take it to qualified service whenever service or repair is required. Opening or removing the covers may expose you to dangerous voltages or other risks. Also, incorrect reassembly can cause electric shock when the unit is subsequently used.
- 8. **Unplug** this product from the Direct Current (DC) power source and refer to qualified service personnel under these conditions:
  - a. When the power supply cord or plug is damaged or frayed.
  - b. If liquid has been spilled on the product.
  - c. If the product does not operate normally after following the operating instructions in this manual. Adjust only those controls that are covered by the operating instructions in this manual. Improper adjustment of other controls that are not covered by this manual may damage the unit and will often require extensive work by a qualified technician to restore normal operation.
  - d. If the product exhibits a distinct change in performance.

## 2. General

The Star PIN120 is an intelligent single door keypad / controller that combines the convenience of entry control with the security of an alarm system. Also, the Star PIN120 will also give you field proven reliability and cost-effective solution anywhere access controls and security are required.

The Star PIN120 can interface and operate with EXIT button. Also, output ports, which include 2 Relays and 1 Bell. Moreover, the status or behaviours of these input and output accessories are configurable to provide the system administrator with complete customized control of the system.



## 3. Identifying Supplied Parts

Please unpack and check the contents of the box.









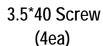
PIN120 (1ea)

Wall Mount (1ea)

O-ring (5ea)

User's Manual (1copy)







3.5\*12 Screw (4ea)



Anchor Bolt (4ea)

# 4. Features

- PINPAD Single Door Access Controller
- 512 Users
- User Defined 4 6 digit PIN
- Independent 1 Input and 3 Outputs including 2ea of 2 Form-C Relay Outputs
- Operation Time of All I/Os Programmable by Keypad
- Keypad Lock by Try-out Error Alarm Function
- Chime Bell Output
- Tamper Switch



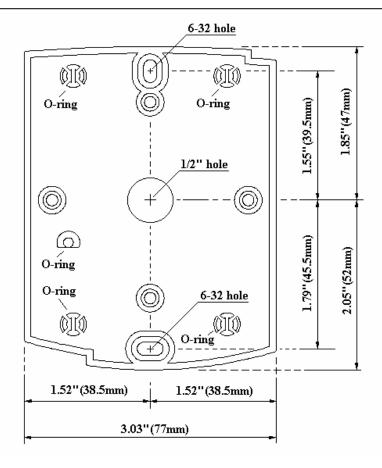
## 5. Specification

	Model	PIN120	
CPU		8bit Microprocessor	
Memory	Program Memory	8KBtyte ROM	
	Data Memory	2KByte EEPROM	
User		512 Users	
Power / Cu	urrent	DC 12V / Max.160mA	
Input Port		1 Port (Exit Button)	
		2 Ports (Form-C Relay Output (COM, NO, NC) /	
Output Po	rt	DC12-18V, Rating Max.2A)	
		1 Port (Chime Bell Output / DC5V, Rating Max. 500mA)	
Keypad		12 Key Numeric Keypad with Back Lighting	
LED Indica	ator	3 Array LED Indicators (Red, Green and Yellow)	
Beeper		Piezo Buzzer	
Operating	Temperature	-35° to +65°C ( -31° to +149°F )	
Operating	Humidity	10% to 90% relative humidity non-condensing	
Color / Ma	terial	Dark Pearl Gray / Polycarbonate	
Dimension	ı (W x H x T)	87mm x 100mm x 31mm (3.4" x 3.94" x 1.22")	
Weight		162g (0.36lbs)	
Certification	on	UL, CE	

# 6. Installation

- 6-1.Drill two 6-32 or M3 holes 3.3"(8.38cm) apart in vertical and one 1/2" hole at the centre of these two holes. (If you have installed electric gang box then skip this step.)
- 6-2. Using two 6-32 or M3 screws, install wall mount to the wall.
- 6-3. Insert 5 O-rings to the wall mount as indicated, then route the cable of the main unit through the centre hole and push the main unit to wall mount to lock the main unit and make sure that the main unit is locked with wall mount.



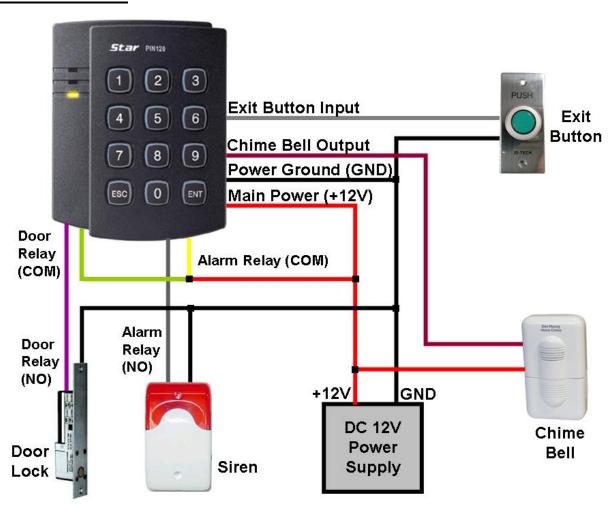


# 7. Wire Color of Table

SIGNAL	COLOR
Main Power (+12V)	Red
Power Ground (GND)	Black
Door Relay Out (COM)	Green
Door Relay Out (NC)	Blue
Door Relay Out (NO)	Purple
Alarm Relay Out (COM)	Yellow
Alarm Relay Out (NC)	Orange
Alarm Relay Out (NO)	Gray
Chime Bell Out	Brown
Exit Button In	White
* Please cut out tail connector before in	stallation.



#### 8. Wire Connection



## 9. Operation

#### 9-1. Initial Settings

- PIN120 is completely blank when it is delivered to customer.
  - The unit automatically enters to initial setting mode (program mode) when it is powered up.
- You may also erase all memory by turn on the power after connecting 2wires.
   (White and Brown)
- Programming sequence is as follows:
  - Connect 12V DC Power supply to RED (+) and BLACK (-) wire then power up
  - You can hear the tune "Sol-Fa-Mi-Re-Do~" and all three LEDs on
  - Press the keypads as follow.

(6 digit Master ID) + (ENT)	Tune (Do-Do-Mi-Mi-Sol-Sol)	red & green LED on
(4~6 digit Access ID) + (ENT)	Tune (Mi-Do)	red LED on
[PIN Access Code]	Tune (Mi-Do)	
(Up to 512 Access ID) + (ENT)		
(6 digit Master ID) + (ENT)	Tune (Do-Sol-MiDo~)	



Example) You want to set Master ID "123456" and Access ID "1111", "22222" and "345678".

 "123456" + (ENT)
 : Register Master ID

 "1111" + (ENT)
 : Register Access ID

 "22222" + (ENT)
 : Register Access ID

 "345678" + (ENT)
 : Register Access ID

 "123456" + (ENT)
 : Finish Setting

Note: Master ID must be 6 digits long and Access ID is 4~6 digit and (ESC) key is to cancel the key input, for example if you want to press "123456" but you pressed "112345" then press ESC key to cancel "112345" then press "123456" + (ENT) to correction.

■ The unit now enters to normal operation mode.

■ With above sequence you already registered "MASTER ID" and "USER ACCESS ID" and the other default settings are automatically set and stored into flash memory.

#### 9-2. Default Setting Values

When Access ID Granted	Door Relay and green LED activate for 3 seconds
Exit Input Entered	Door Relay and green LED activates for 3 seconds
When Access ID denied	Alarm Relay and red LED activates for 2 seconds
When Access in deflied	(within Try-out count)
When Try out error occur	Alarm Relay and red LED activates for 2 seconds and
When Try-out error occur	Keypad locks for 60 seconds (from 3rd Try-out).
Poll (ESC) key proceed	Bell sound (Mi-Do~ Mi- Do~),
Bell (ESC) key pressed	Bell output (open collector) activates for 5 seconds
Numbers of Try-out count	3 times
Keypad input limit time	20 seconds
Keypad lock time	60 seconds
Bell output	Enable
Silent mode	Off
Tamper Alarm	Off
Quick Access code	Disable



#### 9-3. Normal Operation

- Yellow LED is blinking every second.
- Operating Outputs: 4 ~ 6 digits Access ID + ENT
- If Access ID is granted, Door Relay and green LED activates.
- If Access ID is denied, Alarm Relay and red LED activates.
- Exit Input Entered: Door Relay and green LED activates.
- Quick Access (only activates when Quick Access Mode ON): ENT
  - Door Relay and green LED activates
- BELL (only activates when BELL Output Time set): ESC
  - Bell output (open collector) activates with bell sound.

#### 9-4. Setting Changes

Reset All Outputs (all Relays and Bell output OFF)	Master ID+ENT
Add New Access ID	Master ID+ENT+11+ENT+New Access ID+ENT
Delete Access ID	Master ID+ENT+13+ENT+Delete Access ID+ENT
Door Relay Time Set: Time = 00 ~ 99 seconds	Master ID+ENT+21+ENT+TIME+ENT
Alarm Relay Time Set: Time = 00 ~ 99 seconds	Master ID+ENT+22+ENT+TIME+ENT
Bell Output Time Set: Time = 00 ~ 99 seconds	Master ID+ENT+23+ENT+TIME+ENT
Keypad Input Limit Time Set: Time = 10 ~ 99 seconds	Master ID+ENT+25+ENT+TIME+ENT
Key Lock Time Set: Time 00 ~ 99 seconds	Master ID+ENT+26+ENT+Key Lock Time + ENT
Try-Out Count Set: Count = 00 ~ 99 times	Master ID+ENT+27+ENT+COUNT+ENT
Door Relay Latch (unconditional ON)	Master ID+ENT+31+ENT
Alarm Relay Latch (unconditional ON)	Master ID+ENT+32+ENT
Bell Output Latch (unconditional ON)	Master ID+ENT+33+ENT
Tamper Alarm ON	Master ID+ENT+41+ENT
Tamper Alarm OFF	Master ID+ENT+42+ENT
Silent Mode OFF	Master ID+ENT+51+ENT
Silent Mode ON	Master ID+ENT+52+ENT
Quick Access Mode ON	Master ID+ENT+61+ENT
Quick Access Mode OFF	Master ID+ENT+62+ENT
Master ID Change	Master ID+ENT+90+ENT+New Master ID+ENT
Erase All Memory And Initialise Settings	Master ID+ENT+99+ENT+Master ID+ENT



#### 10. FCC Registration Information

#### **FCC REQUIREMENTS PART 15**

Caution: Any changes or modifications in construction of this device which are not expressly approved by the manufacturer for compliance could void the user's authority to operate the equipment.

NOTE: This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions;

1. This device may not cause harmful interface, and

2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to this equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the radio or television off and on, the user is encouraged to try to correct interference by one or more of the following measures.

- 1. Reorient or relocate the receiving antenna.
- 2. Increase the separation between the equipment and receiver.
- 3. Connect the equipment into an outlet on another circuit.
- 4. Consult the dealer or an experienced radio/TV technician for help.

### 11. Warranty Policy and Limitation of Liability

IDTECK warrants this product against defects in material and workmanship for 3 years from the date of purchase under normal customer use. This Warranty doesn't apply: 1) to any product which has been dismantled without authorization of IDTECK or/and has a damaged or detached QC label on its back side; 2) to any losses, defects, or damages caused by improper testing, operation, installation, maintenance, modification, alteration, or adjustment; 3) to any product with a damaged or faded serial number on it; or 4) to any losses, defects, or damages caused by lightning or other electrical discharge, natural disaster, misuse, accident or neglect.

This Limited Warranty is in lieu of all other warranties, obligations, or liabilities on the part of IDTECK, and IDTECK DISCLAIMS ANY AND ALL WARRANTY, WHETHER EXPRESS OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.IDTECK does not, and cannot, know who is present, what property is located, where this product will be used; it would be extremely difficult to determine the actual damages that may result from a failure of the product to perform as anticipated; and the low price of this product is based upon the nature of the product provided and the limited liability that IDTECK assumes. IDTECK IS NOT RESPONSIBLE FOR ANY PERSONAL INJURY, PROPERTY DAMAGE OR LOSS, DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR OTHER LOSS, AND IDTECK'S MAXIMUM LIABILITY SHALL NOT IN ANY CASE EXCEED THE PURCHASE PRICE OF THE PRODUCT.

To obtain repair or replacement under the terms of this warranty, visit IDTECK's Website (http://www.idteck.com) and place an online RMA request. After an RMA code is issued, return the product along with the authorization RMA code.



## RMA REQUEST FORM

IDTECK accepts only on-line RMA requests on our Website (<a href="www.idteck.com">www.idteck.com</a>). Please provide us with basic information in the below form so that we can understand your problems better. Send us back this form with your products after an RMA code is issued on our Website. This form is not compulsory.

RMA Authorization Cod	le:		
1. Company Name			
2. Model Name			
3. Serial No.			
4. Original Invoice No.			
5. Distributor			
6. Purchasing Date			
7. RMA Request Date			
Please check your proble   Card Reading	ems.  □ Power	□ Keypad	
		□ Keypad	
□ Card Reading	□ Power		
□ Card Reading □ Communication	□ Power □ Relay		
□ Card Reading □ Communication □ LED & Buzzer	□ Power □ Relay		
□ Communication □ LED & Buzzer	□ Power □ Relay		
□ Card Reading □ Communication □ LED & Buzzer	□ Power □ Relay		

#### IDTECK RMA Center >>

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e-Training Center: www.idtecktraining.com











The specifications contained in this manual are subject to change without notice at any time.

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