

# USER'S MANUAL

**Star** 505R  
**IDTECK** SR505  
**iPASS** IP505R

Proximity, T&A Access Controller

Rev. 5.0



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## **1. Important Safety Instructions**

When using **Star 505R**, basic safety precautions should always be followed to reduce the risk of fire, electrical shock, and injury to persons. In addition, the following safety guides should also be followed:

1. **Fully** read and understand all instructions and follow them completely.
2. **Follow** all warnings and instructions marked on the product.
3. **Do not** use liquid or aerosol cleaners. Use a damp cloth for cleaning. If necessary, use mild soap.
4. **Do not** use this product near water.
5. **Only** operate this product using the type of power source indicated. If you are not sure of the type of power supplied to your installation site, consult your dealer or local power company.
6. **Never** insert objects of any kind into the product or through the cabinet slots as they may touch voltage points and/or short circuit parts possibly resulting in fire or electric shock.  
Never spill liquid of any kind on the product.
7. **Never** disassemble this product by yourself; take the unit to a qualified service center 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 505R** is a highly advanced, intelligent single door controller with a dual 8bit microprocessor to meet the market requirement for a robust integrated solution for access control and time & attendance. It is designed for low cost as well as high security, convenience and reliability. This user-friendly device allows you to register 500 ~ 10,000 ID numbers and can keep 2,500 ~ 7,250 events. Number of ID &

Events can be exchanged under the ratio of 2 to1, which means every 500 users can be converted to 250 events. The Event buffer reports and archive information to Excel or Access databases and ultimately manage all access control and time & attendance issues. With a built-in 4" inch RF reader and keypad for Personal Identification Numbers (PIN), the STAR505R offers up to two levels of ID verification. You can verify by Proximity Card, PIN or both and multiple verification levels can be custom programmed for each user or user group. Four independent input ports can be utilized for a wide variety of controls including exit buttons, door contacts, PIR sensors and fire detection equipment. Actions to be taken and time settings can be programmed with the front keypad or via the intuitive Windows-based software program. The **Star 505R** can be used both as a stand-alone system and also be networked. All control setting values such as ID numbers, inputs/outputs, real-time clock, time schedules, and event transaction reports can be uploaded and/or downloaded to and from the host computer. The compact and contemporary unit is easily installed and programming requires no significant knowledge of access control or time & attendance. The three LED indicator lights inform you of the systems operating status at real time and the digital display acts as a programming aid as well as a regulation time clock. By bundling the ultimate in high security access control and comprehensive employee management tools into a compact user friendly unit, the field proven **Star 505R** is the ideal solution for controlling entrances and ensuring complete employee accountability.

### **3. Features**

- Dual function for Access Control and Time & Attendance(505R)
- Dynamic control of memory up to 10,000 Card holders/ 7,250 Events
- Standalone/ Network communication via RS232/RS422(max.32ch),  
TCP/IP available with LAN converter
- Independent 4 inputs and 4 outputs including 2 FORM-C relay output
- External reader port for Anti-pass back operation
- Dual Tamper Switch

<b>Comparison Table</b>	
505R	<b>Dual function for access control and Time &amp; Attendance.</b> Built-in 125KHz RF Reader(4") back lighting on keypad. RF Only RF + P/W(4digit)/ PIN(4~6digit) only.
505M	Magnetic stripe / Magnetic stripe + P/W(4)

#### 4. Specification

CPU	8bit Microprocessor
Memory	Program Memory: 64KB ROM Data Memory: 128KB RAM (battery backup)
Power	DC 12V/ 350mA max. (excluding lock current)
Card Holders / Event Buffers	User programmable by 500 units of card holders Card Holders: 500 ~ 10,000 users (Default: 5,000 users) Event Buffers: 2,500 ~ 7,250 events (Default: 5,000 events)
Reader Ports	1 External port, 1 Internal port / Wiegand format
Reader Data Format	Standard 26 bits Wiegand Format, Standard 34 bits Wiegand Format(Applied to SR505), 8 bits burst Format for keypad reader
Communication port	RS232/RS422(up to 32 channels) selectable 4800, 9600(Default), 19200, 38400bps communication speed
Inputs/Outputs	4 Input ports/ DC12V/ 20mA 2 Relay Output ports/ DC12V~24V/ FORM-C Relay 2A max. 2 TTL Output ports: DC5V/ 20mA
Self Diagnosis	Yes
Reset	Power on reset and Watchdog timer reset
Operation Status	3 LED (Red, Green, Yellow) indicators
Operating Environment	0°C ~ +65°C, 0 ~ 90%(Humidity)
Weight	400g
Dimensions	150mm(5.9 ") x120mm(4.72 ") x39.5mm(1.55 ")
Keypad	16 keys
LCD Display Module	2Lines x 16ch, 2.62" x 0.55"(65.6mm x 13.8mm) viewing area
STAR 505R Series	
STAR 505R	Built-in 125KHz(PSK) Reader
STAR SR505	Built-in 13.56MHz(MIFARE®) Reader
IP-505R	Built-in 125KHz(ASK) Reader

## 5. Identifying Supplied Parts

Please unpack and check the contents of the box.

(Optional accessories, if purchased, may be included in the package)



**Main Unit**  
( 1ea )



**Wall Mount**  
( 1ea )



**O-ring**  
( 5ea )



**User's Manual**  
( 1ea )



**Diode**  
( 2ea )

## 6. Product Overview

### 6.1 Functions

#### Stand-Alone Operation

The **Star 505R** is capable of having 2 readers (1 Door Control). The unit receives card ID numbers from the proximity readers and determines whether or not to unlock the door. When an input signal is entered, for example from a Sensor activated or an Exit button pressed, the controller generates and logs an appropriate response by input signals. All events are stored into the memory buffers and sent to the host computer. The access controller is a true stand-alone device that, in the event of malfunction, will not affect other units when used in conjunction with one another.

#### Operation with Host Computer

All event transactions can be managed via the host computer. The data transmitted from the controller can be displayed and stored on the host PC.

#### Data Backup

The controller retains all user information and event data for 30 days, even in the case of power failure.

※ **CAUTION: Battery switch must be set correctly before the unit running.**

(See the INSTALLATION section)

#### Keypad

If the **Star 505R** is not connected to a host PC, the integrated keypad and LCD display module can also be used for the entire programming process.

#### Anti-Pass-Back

By using an additional proximity reader, the Anti-Pass-Back mode can be set. The Anti-pass-back mode prevents entry or exit when the registered user did not properly followed one entry and one exit by the Anti-pass-back rule. The same user can not enter twice with the entry card without properly using the exit before.

### **Input/Output**

The **Star 505R** has 4 built-in inputs and 4 outputs (2 relay outputs and 2 TTL outputs) which can be used to manipulate a wide variety of controls.

### **Time Schedule Setup**

You can program 10 time schedules and apply one time schedule to each User. Each time schedule has 8 different time zones from Monday-Sunday (7 time zones) and one holiday. Each time zone has 5 different time codes so you can program 5 different time codes to each day. You can also program time schedules for individual inputs and outputs. Note that the time schedule for input is activated time code for input device so that the input is activated during the time code on this time schedule. Each time schedule is linked to one holiday schedule and this linked holiday only validates to the holiday time code of the time schedule.

### **Holiday Schedule Setup**

Excepting Sunday, you can program 32 holidays to one holiday schedule. Each holiday schedule is linked to one time schedule which has a time code for holidays. You can program all holidays to a holiday schedule and the time code for holidays is programmed to the holiday time zone of time schedule.

- Example:
- A. Holiday schedule 01 linked to time schedule 01,  
Holiday schedule 02 linked to time schedule 02
  - B. Holiday schedule 02 linked to time schedule 01,  
Holiday schedule 01 linked to time schedule 03

### **Forced Door Open Alarm**

When the door is opened by force, the door contact sensor will be activated. The forced door open alarm will be generated until the door is closed again. For this application, you have to install the door contact sensor and properly set the door contact time and outputs to the alarm devices.

### **Duress Alarm**

In case of duress, enter the 2 digits Duress Password and press the<ENT> key before the normal access process. The door can be opened as normal, but the duress alarm is also generated at the same time. The duress alarm output will be activated to the TTL output and an alarm event will be sent to the host PC.

**6.2.1 Front Panel Description**



Figure: Description of Star 505R Front Panel

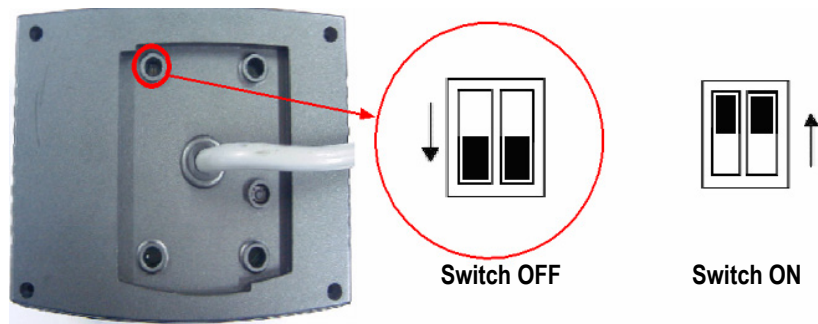


Figure: Description of Star 505R Back Panel

**LCD Module:**

LCD module display 505R status.

**System Operation Status LED:**

When the power is applied to 505R, the red LED is turned on.  
When the Relay #1 is operated, the green LED is turned on.  
When the Relay #2 is operated, the yellow LED is turned on.

**16 key pad:**

You can operate Star 505R manually by using the key pad.

**Function key:**

The Star 505R has four Function keys ([F1], [F2], [F3], [F4]).

**Card reading status LED:**



When a card is read, the card reading status LED turns on green.

**Backup Battery DIP Switch:**

Star 505R has a switch for the backup battery connection, which remains open circuit to prevent any current consumption of the backup battery.

**6.2.2 WIRE COLOR TABLE OF THE Star 505R**

<u>I/O PORT NAME</u>	<u>SIGNAL NAME</u>	<u>WIRE COLOR</u>
<b>POWER</b>		
Main Power (+12V	+12V	Red wire
Power Ground	0V	Black wire
<b>OUTPUT</b>		
Door RELAY(COM)	COM(1)	Gray wire with red stripe
Door RELAY(NC)	NC(1)	Blue wire with white stripe
Door RELAY(NO)	NO(1)	White wire with red stripe
Alarm RELAY(COM)	COM(2)	White wire
Alarm RELAY(NC)	NC(2)	Purple wire with white stripe
Alarm RELAY(NO)	NO(2)	Purple wire
TTL OUTPUT #1	TTL 1	Orange wire with white stripe
TTL OUTPUT #2	TTL 2	Brown wire with white stripe
<b>INPUT</b>		
Exit Button	EXIT	Orange wire
Door Sensor	CONTACT	Yellow wire with red stripe
Aux Input #1	IN#1	Green wire
Aux Input #1	IN#2	Green wire with white stripe
<b>EXTRA READER</b>		
Wiegand DATA 0	DATA0	Pink wire
Wiegand DATA 1	DATA1	Cyan wire
<b>RS232</b>		
RS232-TX	TXD	Black wire with white stripe
RS232-RX	RXD	Red wire with white stripe
<b>RS422</b>		
RS 422-TX(-)	TXD(-)	Yellow wire
RS422-TX(+)	TXD(+)	Gray wire
RS422-RX(-)	RXD(-)	Blue wire
RS422-RX(+)	RXD(+)	Brown wire

## 7. Installation Checkpoint & Tips

Installing the **Star 505R** is an easy task. It can be installed with common hand tools and readily available communications wires. This section provides information about wiring, wire runs and other information to make the installation quick and easy.

### 7.1 CHECK POINTS BEFORE INSTALLATION

#### 7.1.1 SELECTION OF CABLE

System installation cabling will be configured as follow.

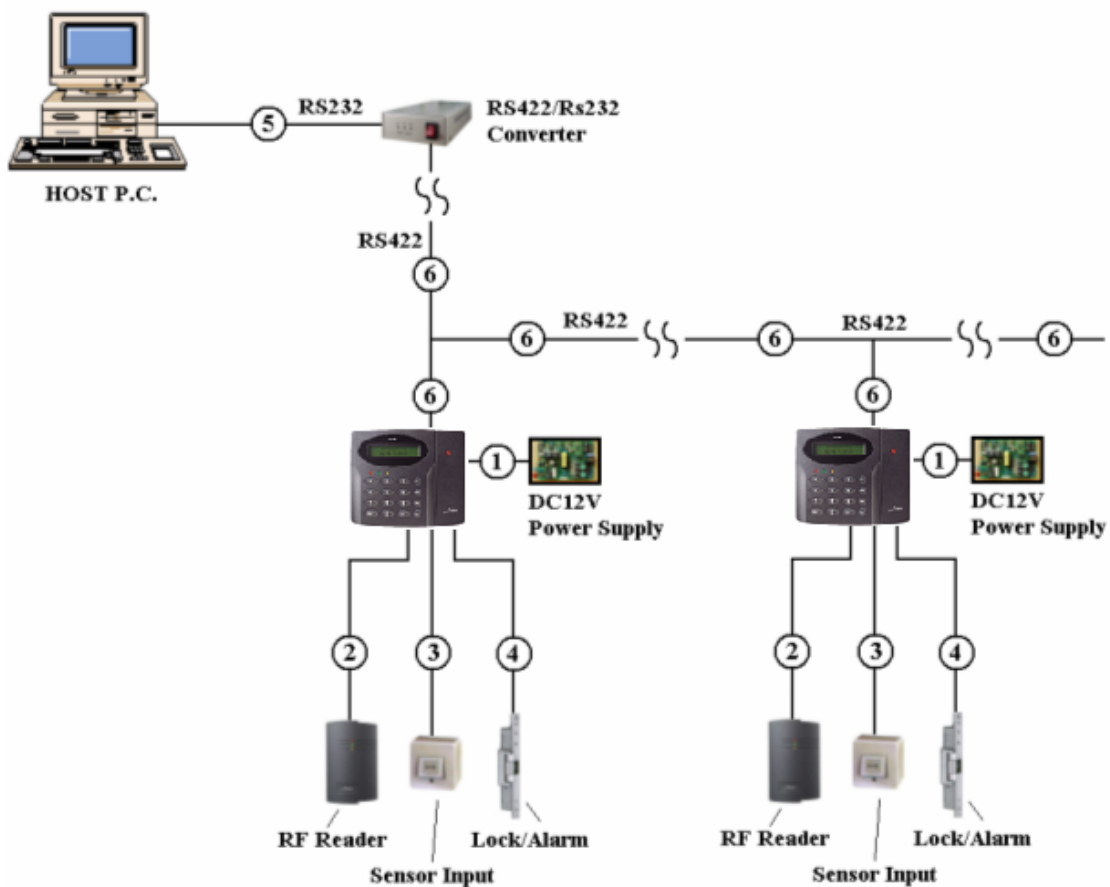


Figure: System Installation Layout

#### 7.1.2 RECOMMENDED CABLE TYPE AND PERMISSIBLE LENGTH OF CABLE

Reference	Description	Cable Specification	Maximum Distance
①	505R Power (DC12V) DC Power -> 505R	Belden #9409, 18 AWG 2 conductor, unshielded	30m
②*	Reader (Power and Data) Extra Reader -> 505R	Belden #9512, 22 AWG 4 conductor, shielded	150m

		Belden #9514, 22 AWG 8 conductor, shielded	
③	Door Contact Exit Button Sensor Input Input -> 505R	Belden #9512, 22 AWG 4 conductor, shielded	300m
		Belden #9514, 22 AWG 8 conductor, shielded	
④	Door Lock, Alarm Device Lock (Alarm) -> 505R	Belden #9409, 18AWG 2 conductor, unshielded	300m
⑤	RS232 Cable Converter -> Host P.C.	Belden #9829, 24 AWG 2-twisted pair, shielded	15m
⑥	RS485 Cable 505R -> 505R 505R -> Converter	Belden #9829, 24 AWG 2-twisted pair, shielded	1,200m
	RS422 Cable 505R -> 505R 505R -> Converter	Belden #9830, 24 AWG 3-twisted pair, shielded	

\*: Need thicker wire if you connect the reader with high current consumption.

**7.2 CHECK POINT DURING INSTALLATION**

**7.2.1 TERMINATION RESISTOR**

Termination resistors are used to match impedance of the network to the impedance of the transmission line being used. When impedance is mismatched, the transmitted signal is not completely absorbed by the receiver and a portion of signal is reflected back into the transmission line.

The decision whether or not to use termination resistors should be based on the cable length and data rate used by the communication system.

For example, if you use 9,600 baud rate and 1,200m length of cable, the propagation velocity of cable is 0.66 x speed of light (This value is specified by the cable manufacturer), if we assume the reflections will damp out in three round trip up and down the cable length, the transmitted signal will stabilize 18.6us after the leading edge of a bit. Since the data bit is captured in the middle of the bit which is approximately 52us after the leading edge of a bit. The reflection stabilizing time 18.6us is much before the center of the bit therefore the termination resistors are not required.

However, if you install the cable to maximum length, the impedance of cable and network is mismatched and the transmitted signal is overlapped by the reflected signal. In this case, it is recommended to add termination resistors to the end of the receiver lines. A 120Ω resistor can be used for termination resistor in parallel between the receiver lines “A” and “B” for 2

wires RS485 system or “RX+” and “RX-” for 4 wires RS422 system. A termination resistor of less than 90Ω should not be used and no more than 2 terminations should be used in one networking system.

**7.2.2 HOW TO CONNECT TERMINATION RESISTORS**

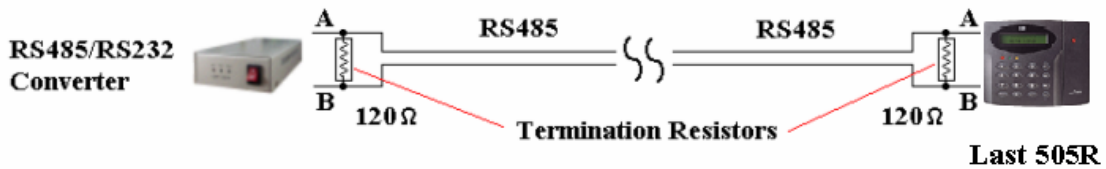


Figure: Termination resistors for 2 wire RS485 communication system

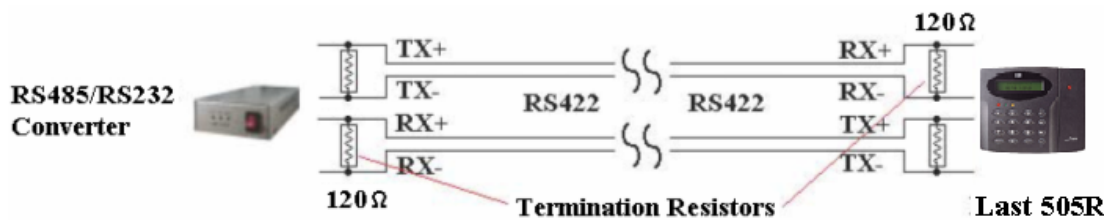


Figure: Termination resistors for 4 wire RS422 communication system

**7.2.3 GROUNDING SYSTEM FOR COMMUNICATION CABLE**

We recommend to using proper grounding system on the communication cable. The best method for grounding system is to put the shield wire of the communication cable to the 1<sup>st</sup> class earth grounding; however it is not so easy to bring the earth ground to the communication cable and also the installation cost is raised.

There will be three grounding point where you can find during installation;

- 1) Earth Ground
- 2) Chassis Ground
- 3) Power Ground

The most important point for grounding system is not to connect both ends of shield wires to the grounding system; in this case there will be a current flow through the shield wire when the voltage level of both ends of shield wire is not equal and this current flow will create noise and interfere to communications.

For the good grounding, we recommend to connecting ONLY one end of shield wire of communication cable to grounding system; If you find earth ground nearby, then connect one end of shield wire to earth ground; If you do not have earth ground nearby, then find chassis ground and connect one end of shield wire to chassis ground; If you do not find both earth ground and chassis ground, then connect one end of shield wire to power ground. (GND of Star 505R)

Note that if the chassis ground is not properly connected to the earth and floated from the

ground level, then grounding to the chassis ground will give the worst communication; in this case we recommend to using power ground instead of chassis ground.

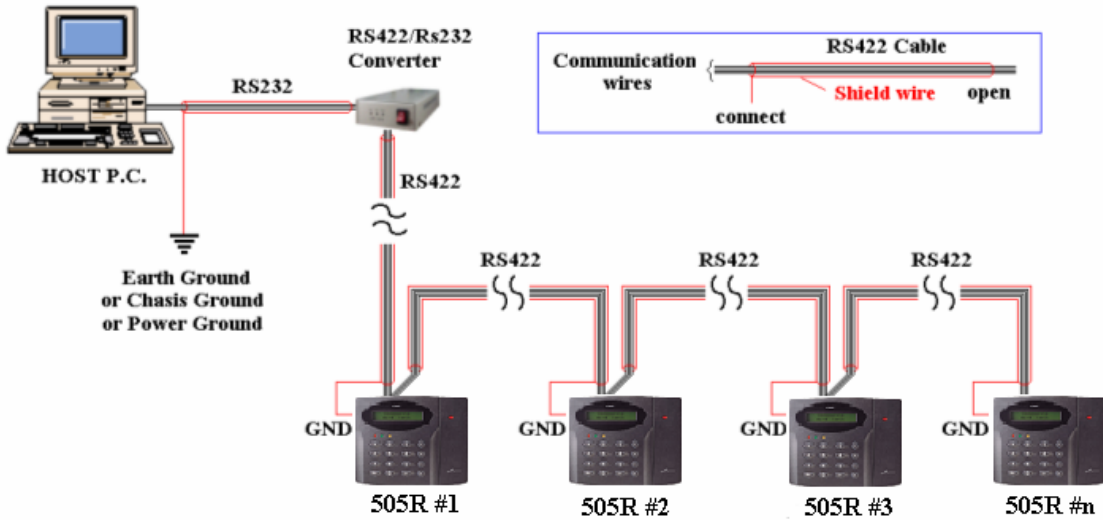


Figure : Grounding system

**7.2.4 REVERSE DIODE CONNECTION**

If you connect an inductor (Door Locks or Alarm device) to the output relays, there will be a high surge voltage created while the inductor is turning on and off. If you do not connect reverse diode, the surge voltage will transfer and damage to the electronic circuit of the controller. It is strongly recommended to add a reverse diode between the inductor coils to absorb this surge voltage.

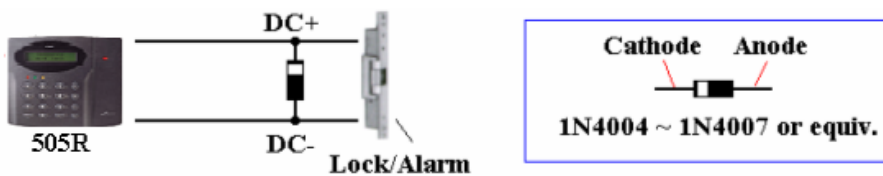


Figure: Reverse Diode connection

## 8. Installation

### 8.1 DIMENSIONS

Unit: mm(inch)



150mm (5.9 ") x 120mm (4.72 ") x 39.5mm (1.55 ")

### 8.2 BACKUP BATTERY DIP SWITCH

Star 505R has a switch for the backup battery connection, which remains open circuit to prevent any current consumption of the backup battery (Figure: Switch setting).

Before the Star 505R operation, it needs to be connected so that the backup battery can retain the memory during power failure.

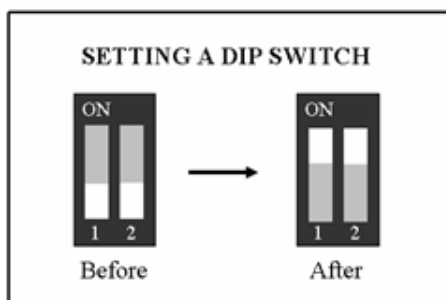


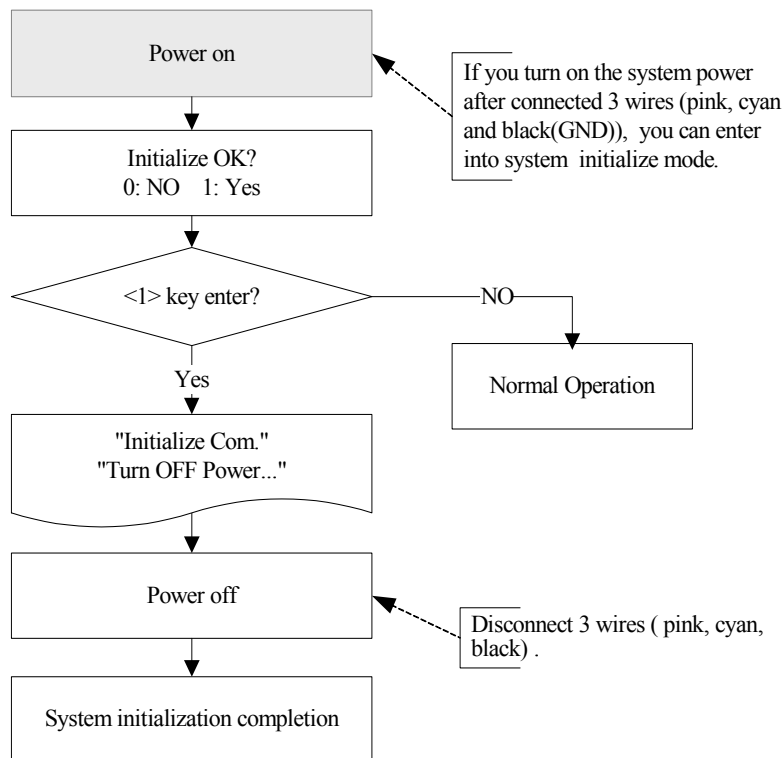
Figure: DIP SWITCH SETTING



Figure: DIP SWITCH LOCATION

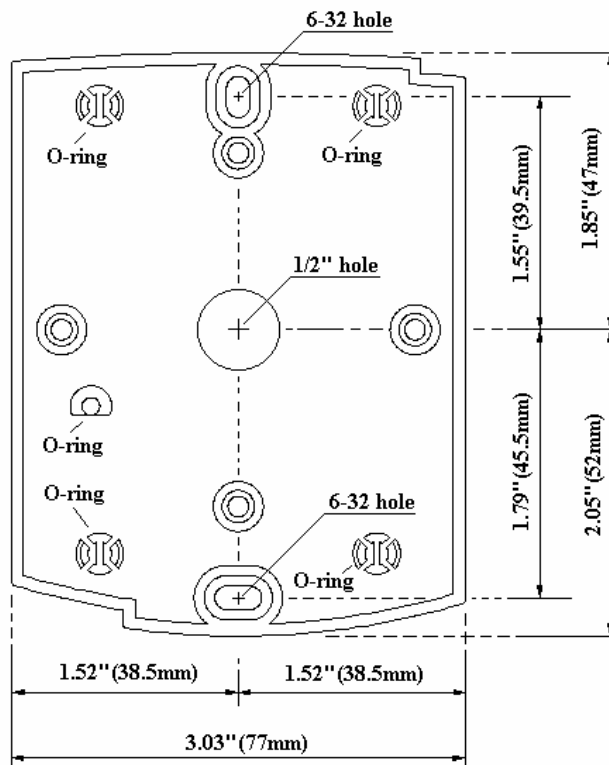
### 8.3 SYSTEM INITIALIZATION

Connect the cyan wire, pink wire and black wire (they are seen from the rear view) together and power on the unit. If you want hardware initialization, press enter key <1>. After initializing – switch main power OFF, separate the three wires (pink, cyan and black(GND)) and switch the main power ON again.



**8.4 INSTALLATION OF THE PRODUCT**

8.4.1. Tear off page 56 and use the provided template to drill two 6-32 holes and one 1/2" hole on the proper location of the wall to mount the Wall Mount bracket as shown below. (Skip this step if the ana box is already installed on the wall.)



**8.4.2** Using 2 screws, install wall mount to the wall.

**※ CAUTION**

Before mounting the STAR 505R unit to the Wall Mount bracket, operational test of the unit should be completed, as the locking pins will lock the unit to the Wall Mount. Removing the unit from the Wall Mount bracket after they have been installed together may cause damages to the bracket and render its effectiveness.

**8.4.3** Insert 5 O-rings to the wall mount as indicated, then route the cable of the main unit through the center 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.

**8.5 WIRING**

**8.5.1 POWER**

Connect (+) wire of DC 12V power to the Red wire.

Connect GND (-) wire of DC 12V power to the Black wire.

**8.5.2 INPUT CONNECTIONS**

**Exit Button Connection**

- Connect one wire from an Exit Button to the Orange wire.
- Connect the other wire from the Exit Button to the GND.

**Door Contact Sensor Connection**

- Connect one wire from a Door Contact Sensor to the Yellow wire with Red stripe.
- Connect the other wire from the Door Contact Sensor to GND.

**Auxiliary Input Connection**

**(Applied to Aux Input #1(Green wire), Aux Input #2(Green wire with White stripe))**

- Connect one wire from an Auxiliary Input Device to one of the Input #1, #2.
- Connect the other wire from the Auxiliary Input Device to GND.

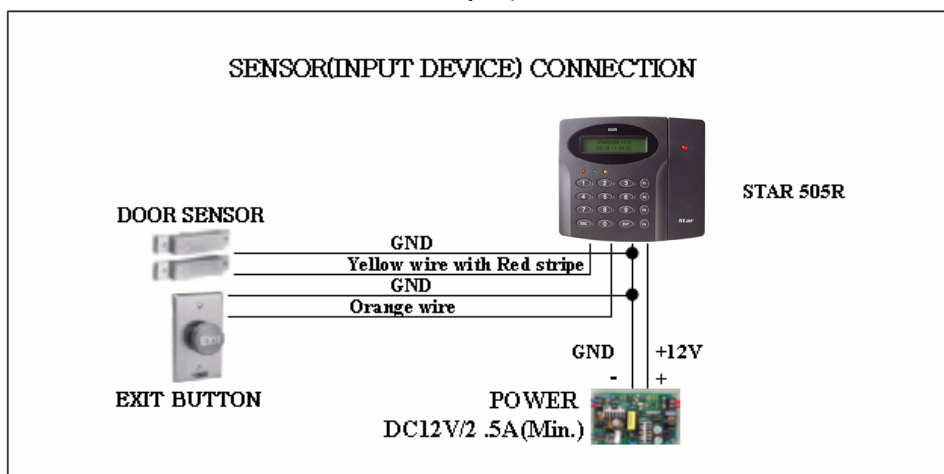


Figure: INPUT DEVICES CONNECTION



**8.5.3 OUTPUT CONNECTIONS**

**Door Lock (Power Fail Safe) Connection (Relay #1)**

- Connect COM wire of Relay #1, the Gray wire with Red stripe to +12V.
- Connect NC wire of Relay #1, the Blue wire with White stripe to (+) wire of door lock device.
- Connect GND wire to (-) wire of door lock devices.

**Door Lock (Power Fail Secure) Connection (Relay #1)**

- Connect COM wire of Relay #1, the Gray wire with Red stripe to +12V.
- Connect NO wire of Relay #1, the White wire with Red stripe to (+) wire of door lock device.
- Connect GND wire to (-) wire of door lock devices.

**Alarm Device Connection (Relay #2)**

1. Connect COM wire of Relay #2, the White wire to +12V.
2. Connect NO wire of Relay #2, the Purple wire to (+) wire of Alarm devices.
3. Connect GND port to (-) wire of Alarm devices.

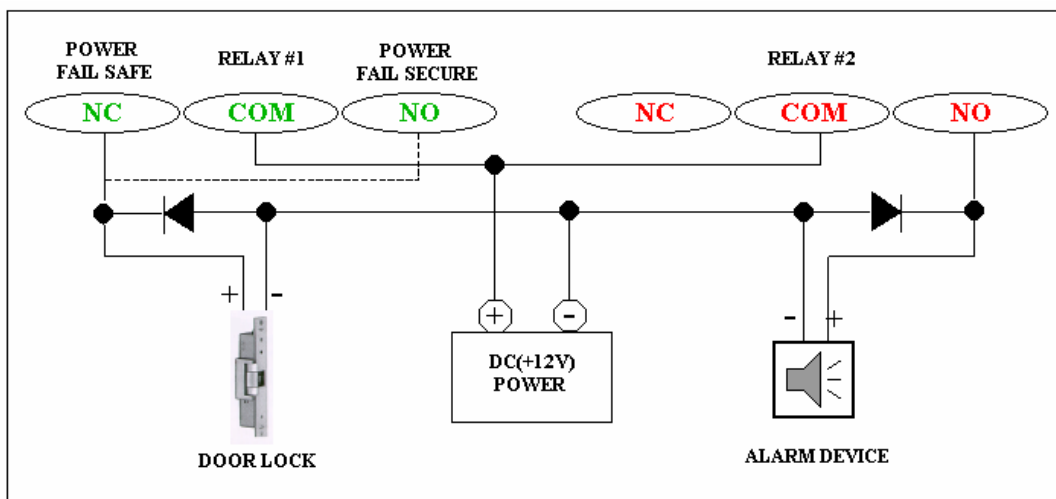


Figure: DOOR LOCK, ALARM DEVICE CONNECTION

**CAUTION: Please add one DIODE as shown above.**  
**DIODE: Fast recovery DIODE (current: Min. 1A), 1N4001 ~ 1N4007 or similar.**

**8.5.4 EXTRA READER CONNECTIONS**

**Proximity Reader Connection**

1. Connect (+) wire of the Proximity Reader to DC +12V.
2. Connect (-) wire of the Proximity Reader to GND of Power.
3. Connect Data-0 wire of the Proximity Reader to D0, the Pink wire.
4. Connect Data-1 wire of the Proximity Reader to D1, the Cyan wire.

- **Compatible Readers:**
  - 505R/iP-505R:** Standard 26bit Wiegand Format Proximity Readers.  
Standard 26bit Wiegand+8bit Burst Format Proximity and Keypad Readers.
  - SR505:** Standard 34bitWiegand Format Proximity Readers.  
Standard 34bitWiegand+8bit Burst Format Proximity and Keypad Readers.
- **Recommended Readers:**
  - 505R:** RF-TINY, RF10, RF20, RF30, RFK101, FGR006, FGR006EX.
  - iP-505R:** iP10, iP20, iP30, iPK101.
  - SR505:** SR10, SR20, SR30, SRK101, FGR006SR, FGR006SRB.

## 9. Communications

### 9.1 RS232 COMMUNICATION PORT CONNECTION

A 9-pin connector (Serial communication connector, female) is required to connect the 505R to a host computer via RS232 communication. Please follow the instructions.

1. Connect RS232-TX (Black wire with White stripe) wire of 505R to the pin #2(RX) of the 9-pin connector.
2. Connect RS232-RX (Red wire with White stripe) port of 505R to the pin #3(TX) of the 9-pin connector.
3. Connect GND (Black wire) of 505R to the pin #5 of the 9-pin connector.
4. Plug in the 9-pin connector to COM1 or COM2 Port of the host PC.
5. Install and run 505R Application Software.



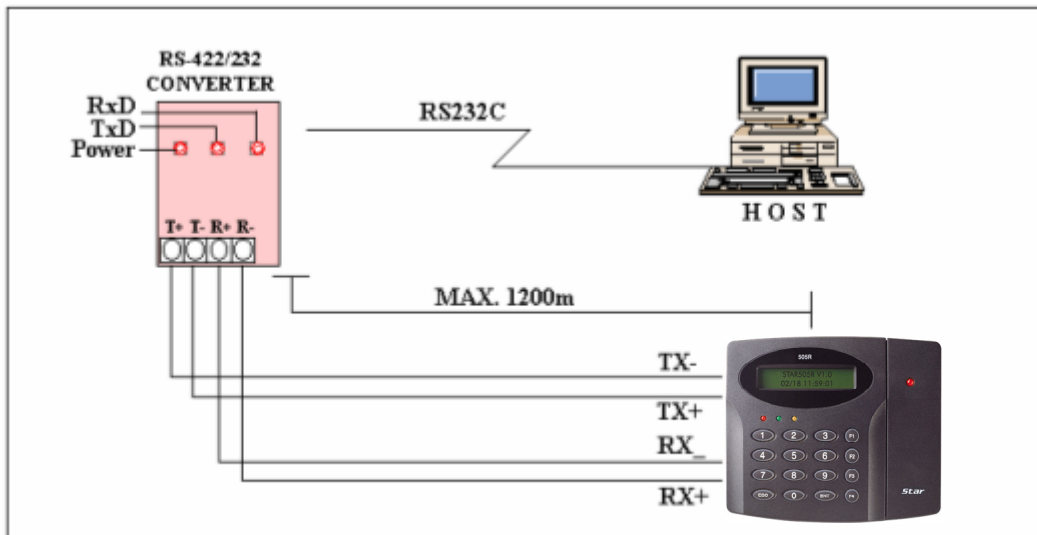
Figure: RS-232 COMMUNICATON

**9.2 RS-422 COMMUNICATION PORT CONNECTION**

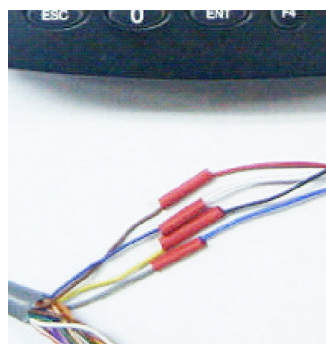
**9.2.1 RS-422 CONNECTION (STAND ALONE)**

RS422/RS232 converter (CNP200) is required to use RS422 communication between the 505R and a host computer. Please follow the instructions.

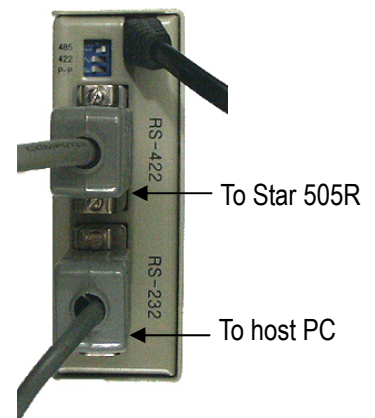
1. Connect RS422-TX(-)(Yellow wire) of the 505R to RS422-RX(-) port of the converter.
2. Connect RS422-TX(+)(Grey wire) of the 505R to RS422-RX(+) port of the converter.
3. Connect RS422-RX(-)(Blue wire) of the 505R to RS422-TX(-) port of the converter.
4. Connect RS422-RX(+)(Brown wire) of the 505R to RS422-TX(+) port of the converter.
5. Plug the RS232 9-pin connector of the converter into the COM1 or COM2 Port of the PC.
6. Install and run the 505R Application Software.



a) Between 505R and CNP200



b) RS 422 port connection



c) CNP200 setting

Figure: RS-422 Communication between 505R and Host Computer

**9.2.2 RS-422 CONNECTION (MULTIPLE 505R CONNECTIONS)**

RS422/RS232 converter is required to use RS422 communication between multiple 505R and a host computer. Please follow the following instructions.

**First, you have to connect all RS422 port of all 505Rs in parallel.**

1. Connect RS422-TX(-)(Yellow wire) of one 505R to RS422-TX(-)(Yellow wire) of another 505R.
2. Connect RS422-TX(+)(Grey wire) of one 505R to RS422-TX(+)(Grey wire) of another 505R.
3. Connect RS422-RX(-)(Blue wire) of one 505R to RS422-RX(-)(Blue wire) of another 505R.
4. Connect RS422-RX(+)(Brown wire) of one 505R to RS422-RX(+)(Brown wire) of another 505R.

**Second, you have to connect one of RS422 port of 505R to RS422/RS232 converter.**

1. Connect RS422-TX(-)(Yellow wire) of the one 505R to RX(-) port of the converter.
2. Connect RS422-TX(+)(Grey wire) of the one 505R to RX(+) port of the converter.
3. Connect RS422-RX(-)(Blue wire) of the one 505R to TX(-) port of the converter.
4. Connect RS422-RX(+)(Brown wire) of the one 505R to TX(+) port of the converter.
5. Plug the RS232 9-pin connector of the converter into the COM1 or COM2 Port of the PC.
6. Install and run the 505R Application Software.

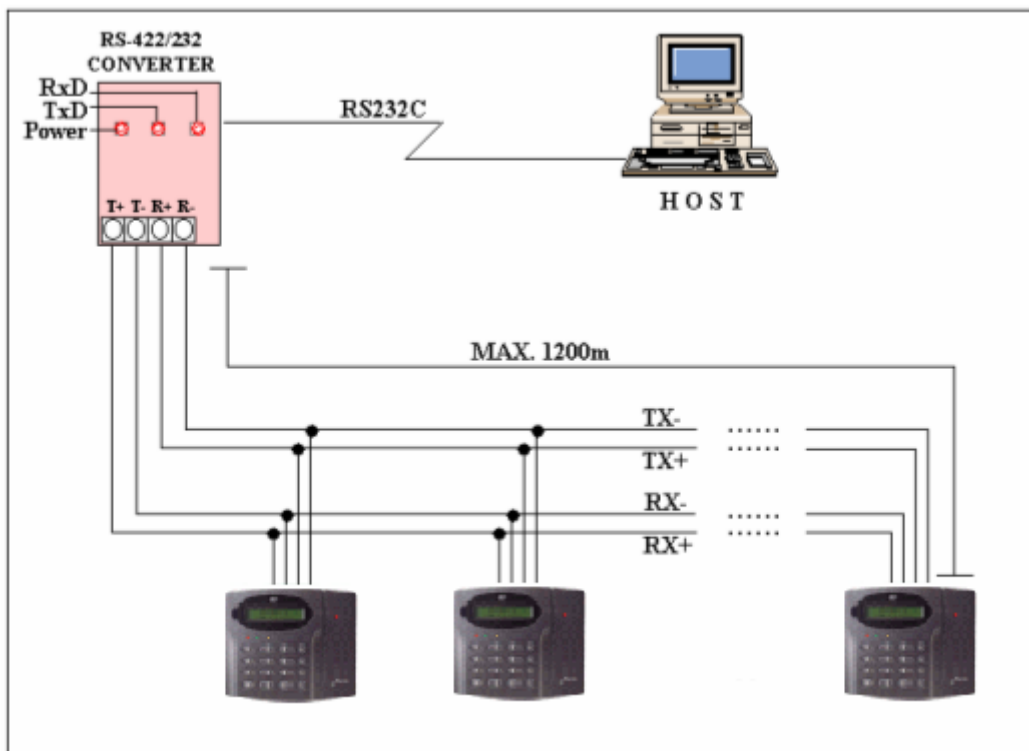


Figure: RS-422 Communication between 505Rs and Host Computer

**9.3 DIAL UP MODEM**

- Please read the Software manual.

**9.4 TCP/IP CONVERTER (EXTERNAL VERSION)**

- Please read the Software manual.

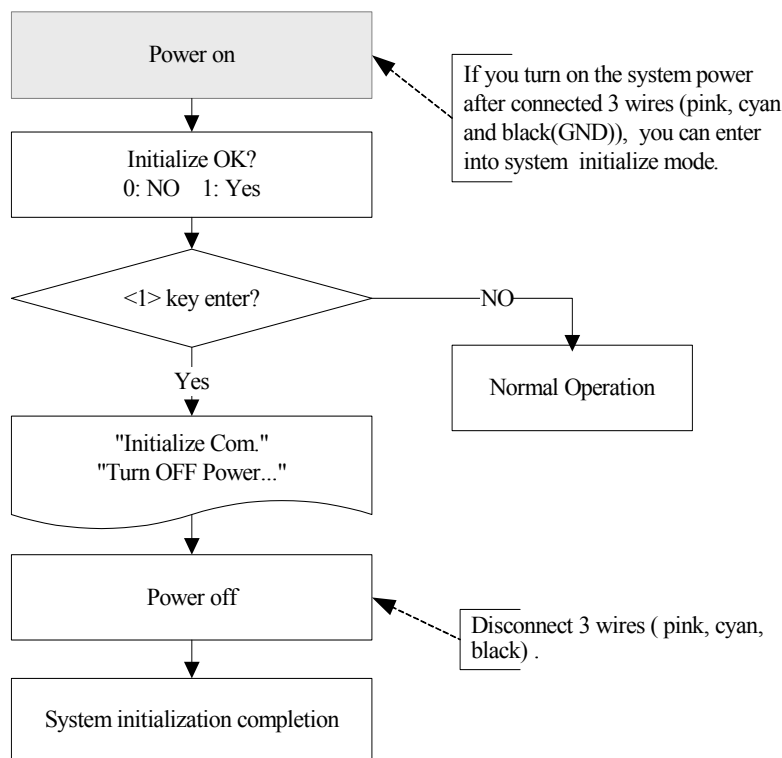
**10. Basic Settings**

**10.1 INITIALIZATION OF 505R**

Connect the cyan, pink and black wires (they are seen from the rear view) together and Power on the unit. If you want hardware initializing, press Enter key <1>.

After initializing – Put the main power OFF and separate 3 wires (Pink, cyan and black(GND)).

Afterwards put main power ON again.



**10.2 HOW TO ENTER THE SET-UP MENU**

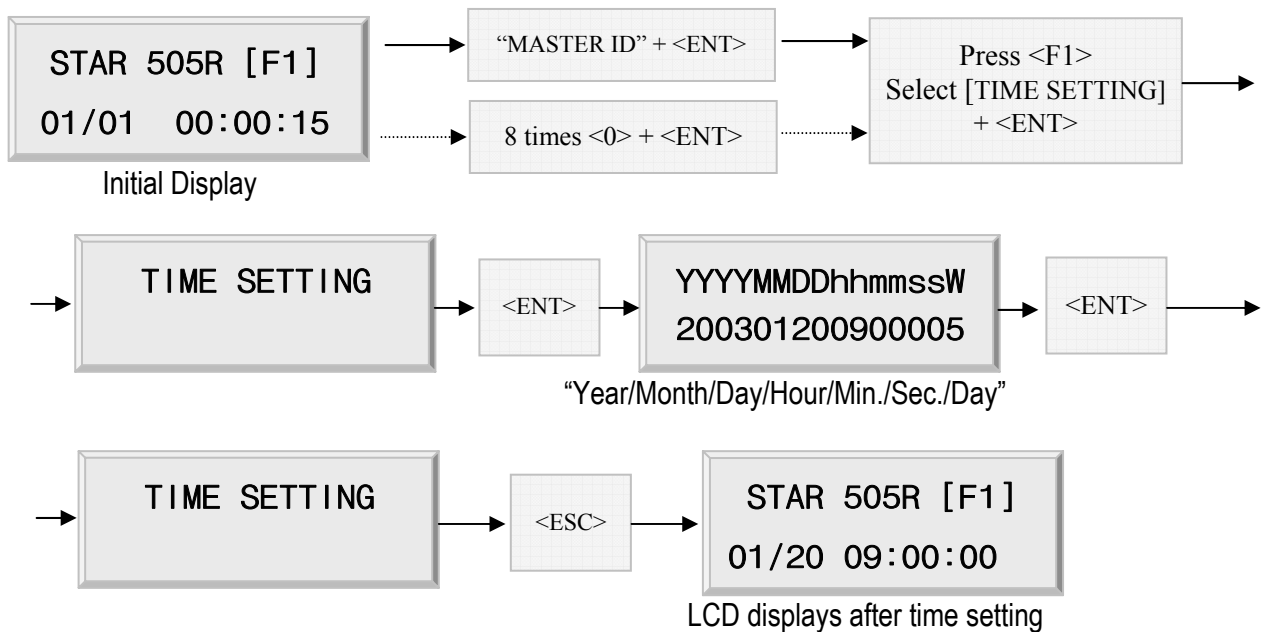
To set up or to change the 505R settings, you have to enter the **SETUP MENU** first. To do so, press the <0> key eight times for the **Master ID (Default setting “00000000”)** and the <ENT> key from the Keypad. Then you can get into **SETUP MENU**. There are four main SETUP MENUS and you first get into **[SETUP MENU F1]**. You can move to another SETUP MENU by pressing the <F1> key for **[SETUP MENU F1]**, <F2> key for **[SETUP MENU F2]**, <F3> key for **[SETUP MENU F3]** and <F4> key for **[SETUP MENU F4]**. There are several SUBMENUS in

the main SETUP MENU and you can scroll up and down the SUBMENU by pressing <4> and <6> key in the main SETUP MENU. If you don't press any key for 60 seconds or if you press the <ESC> key, 505R will exit the SETUP MENU and return to normal operation. You can also change the **Master ID** in the [SETUP MENU F1].

In the case of **SR505**, Press ten times the <0> key (**Default setting "0000000000"**) to enter the **SETUP MENU**.

**10.3 DATE AND TIME SETTING**

Select [TIME SETTING] in the [SETUP MENU F1] and enter the Year / Month / Date / Hour / Minute / Second / Day (Total 15 digits) as shown below. The LCD will display the new Date and Time after the time setting completed but the year and day will not be displayed. 505R has a 24 hours system and day codes are 1 for Sunday, 2 for Monday, 3 for Tuesday, 4 for Wednesday, 5 for Thursday, 6 for Friday and 7 for Saturday. The **Master ID** for **SR505** is a ten digit number (**Default setting "0000000000"**).

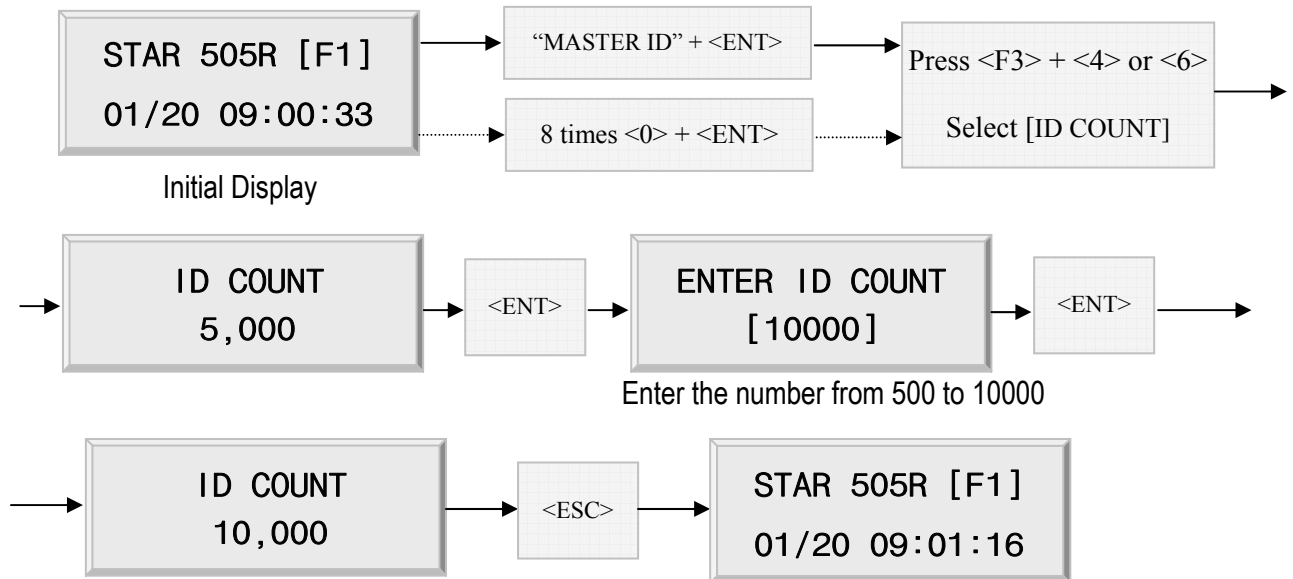


**10.4 ID COUNT SETTING**

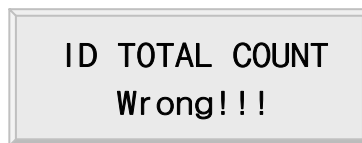
505R can register maximum 10,000 User IDs and you can select maximum User IDs to be registered into the 505R from 500 Users up to 10,000 Users by every 500 unit. This ID COUNT setting is to configure maximum User ID to be registered into 505R and if you setup less ID COUNT 505R will increase the EVENT Buffer size to maximum. The default ID COUNT is 5,000 Users and the default EVENT Buffer size is 5,000. It can be stored when you operate 505R off-line.

Select [ID COUNT] in the [SETUP MENU F3], then setup the maximum User IDs to be registered into 505R. Follow the steps to setup the ID COUNT.

The **Master ID** for **SR505** is a ten digit number (**Default setting "0000000000"**).



You will see this error message when you press **<ENT>** key in the **[ID COUNT]** menu. It tells you that some events are still existing in the **EVENT Buffer** and you may lose the data if you change the **ID COUNT**. You may try this setting again after uploading the events to the host PC or deleting them, using the **[SETUP MENU F1] - [EVENT CLEAR]**.

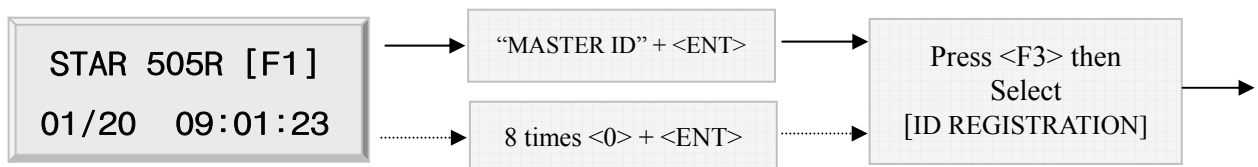


You will see this error message if you try to change **ID COUNT** less than the total registered **User IDs**. In this case you have to delete some **User IDs** or clear them all, using the **[SETUP MENU F1] -> [ID CLEAR]** first, then try again from the beginning.

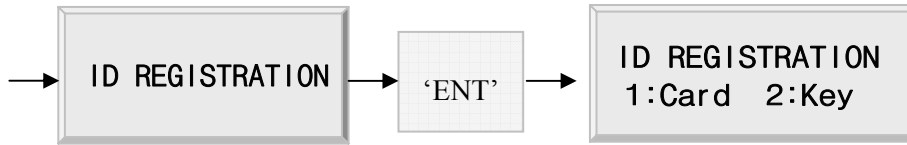
**10.5 ID REGISTRATION**

You can register the **User ID** into the **505R**. Select **[SETUP MENU F3] -> [ID REGISTRATION]** and follow the steps below.

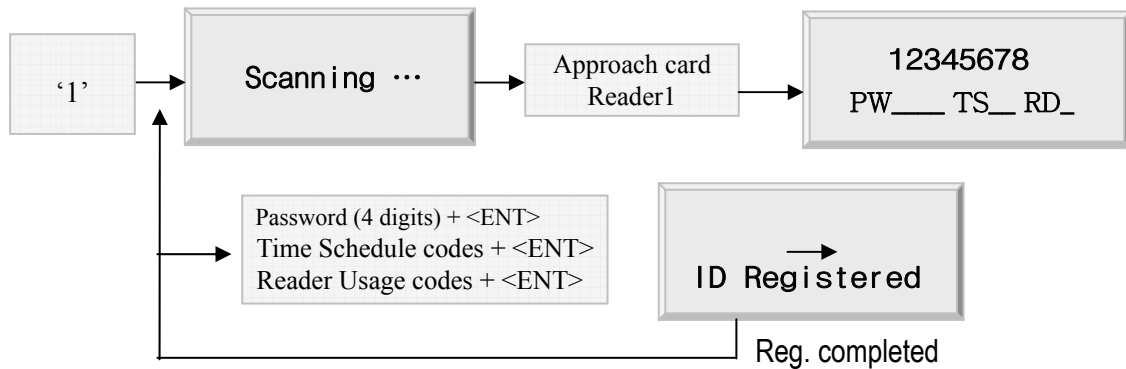
The **Master ID** for **SR505** is a ten digit number (**Default setting "0000000000"**).



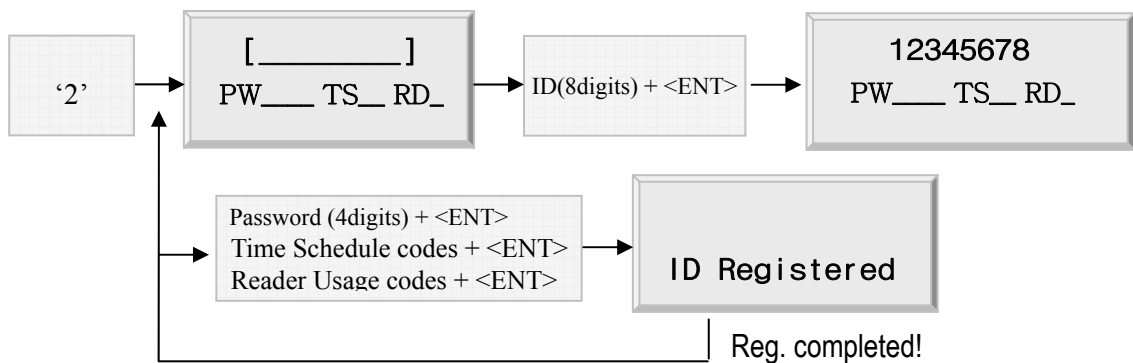
Initial LCD Display



**1. Registration by RF Cards (RF only mode, RF + PW mode)**



**2. Registration by Keypad (PIN mode)**



1. Scanning: The reader is waiting for an RF card which has to be registered. The card number will appear with a beep as the card is read. ID number is a 8 digit number.

(ID number of SR505 is a ten digit number.)

2. ID [\_\_\_\_\_]: ID number consists of 4 ~ 6 digits ID numbers. Enter 4~6 digits ID numbers and press <ENT> key in the ID[\_\_\_\_\_] field. When the Reader mode is PIN, it is displayed on the LCD.

(ID number of SR505 is a ten digit number.)

3. PW [\_\_\_\_]: PW is the password which can be used to access the doors where you install a Proximity and Keypad Reader and setup the RF + Password operating mode.



But regardless of the operating mode, it is necessary to enter a default password (0000) in the PW [\_\_\_\_] field when you register an ID.

4. **TS:** TS is the Time Schedule code (00-10). TS is the Time Schedule for the Reader #1, Reader #2. When you present the card to a Reader, the cardholder is only allowed the access of the door during the Time Schedule code entered to TS\_\_. To control the accessible Time Schedule for each cardholder, you must setup the Time schedules first and enter the Time Schedule code here. If you want to access the door anytime for the cardholder then enter default Time Schedule code '00' for the value.
5. **RD\_\_:** RD is the Reader Usage code for the cardholder. If you put in '1' for RD, Reader #1 is accessible and if you put '0' for RD, the cardholder can not access through the Reader #1(Reader #2). 505R generates an error message ("Access Door Error") and displays it on the LCD. To get access through all Readers, you have to put in '3' as a value for RD.

## **11. Operations**

### **11.1 NORMAL OPERATION**

#### **Power on**

When the power is applied to 505R, the Red LED is turned on.

#### **Registered card reading**

When a registered card (or PIN) is read, the Door (Relay #1) will open for 3 seconds (Default) with the Green LED on.

#### **Exit Button**

To request an exit from the inside, an Exit Button (or an Exit Reader) can be used.

The Door (Relay #1) will open for 3 seconds with the Green LED on.

#### **Alarms**

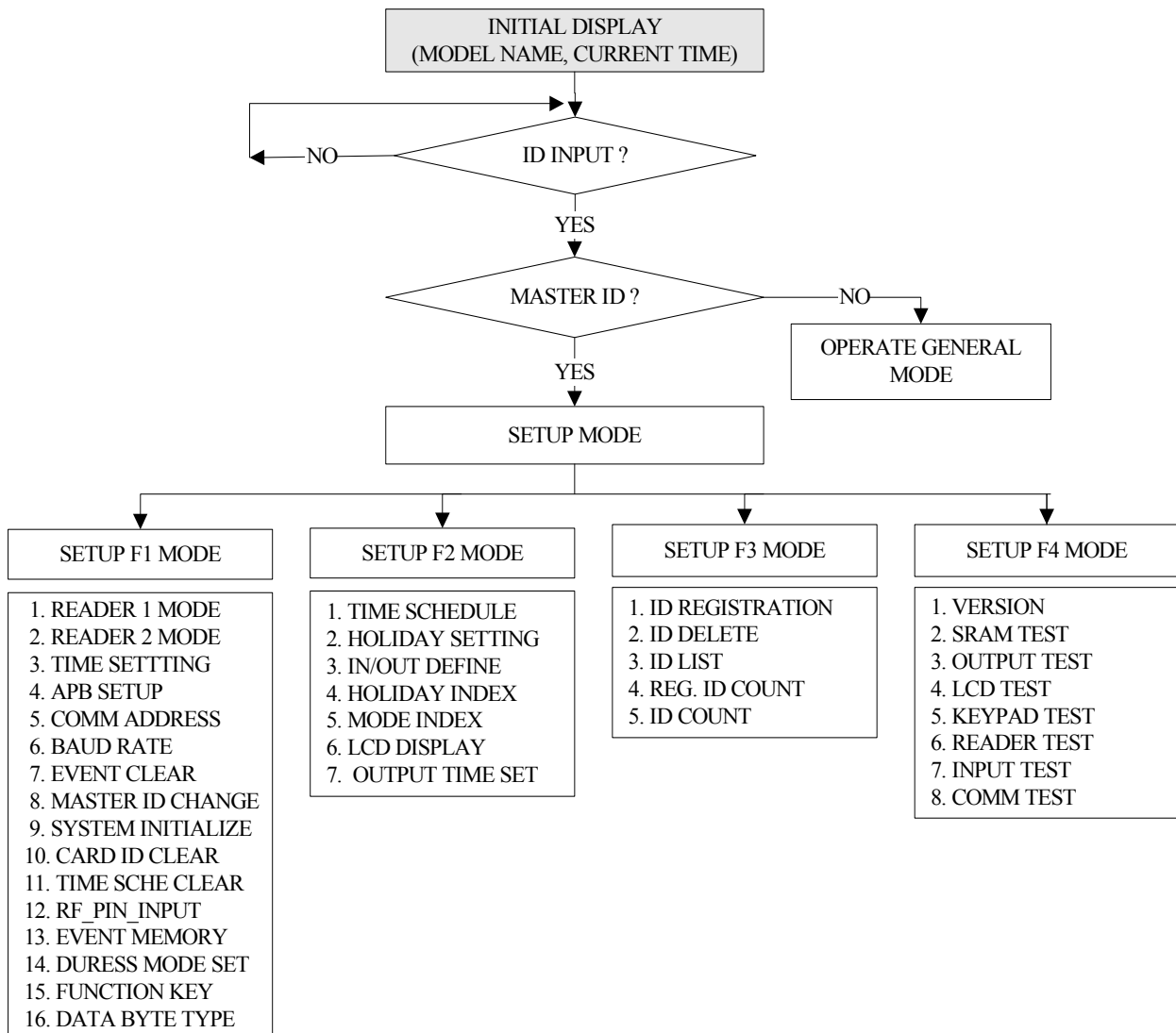
When an unregistered card is read, the access is denied and the alarm (Relay #2) will be activated for 3 seconds with the Yellow LED on.


### **11.2 DEFAULT SETTING**

When you operate the 505R for the first time or want to initialize the 505R, the controller will setup all value defaults (factory settings). You can change the settings for the desired application.

Please refer to the APPENDIX for the default setting values.

## 12. Setting Changes

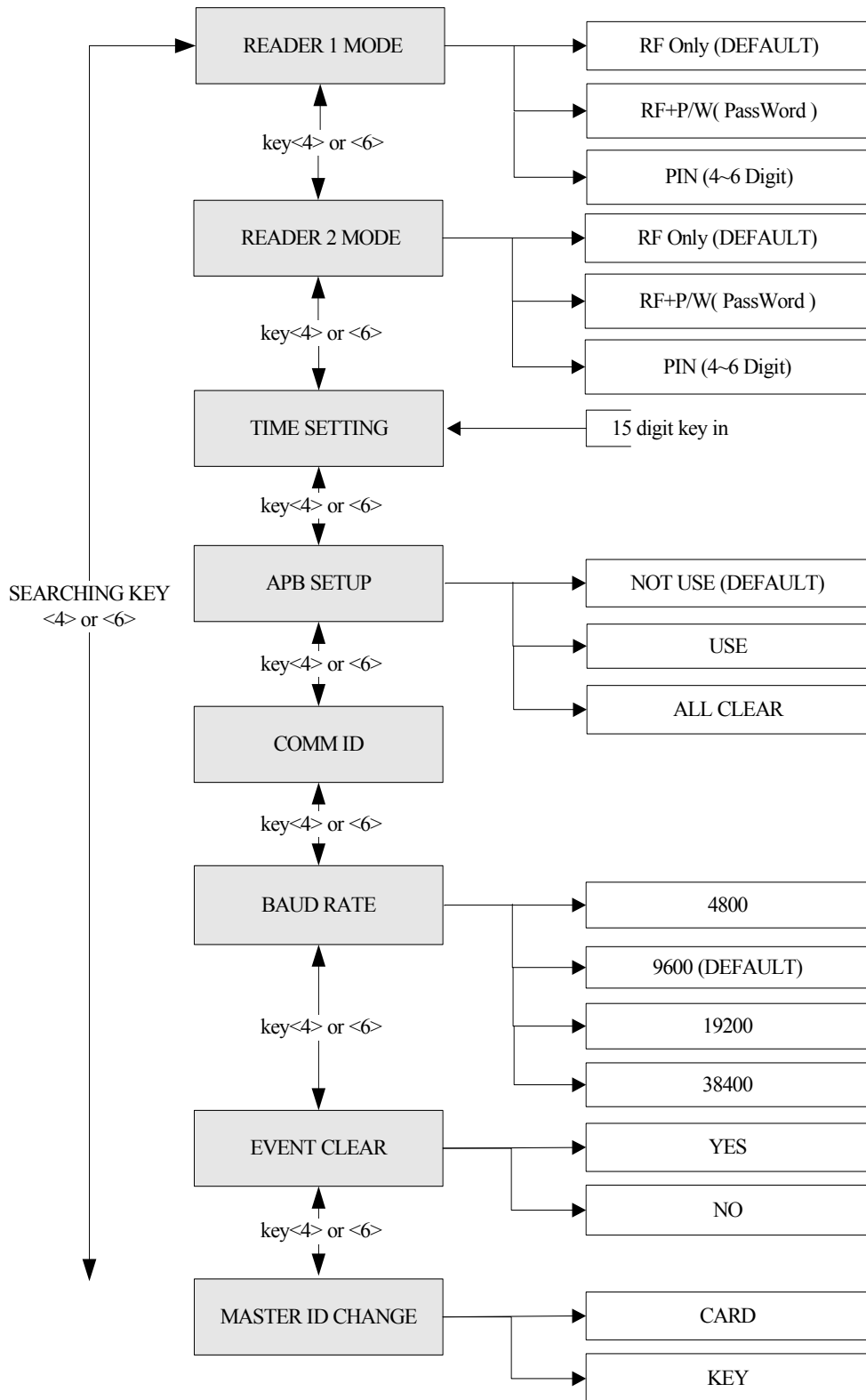


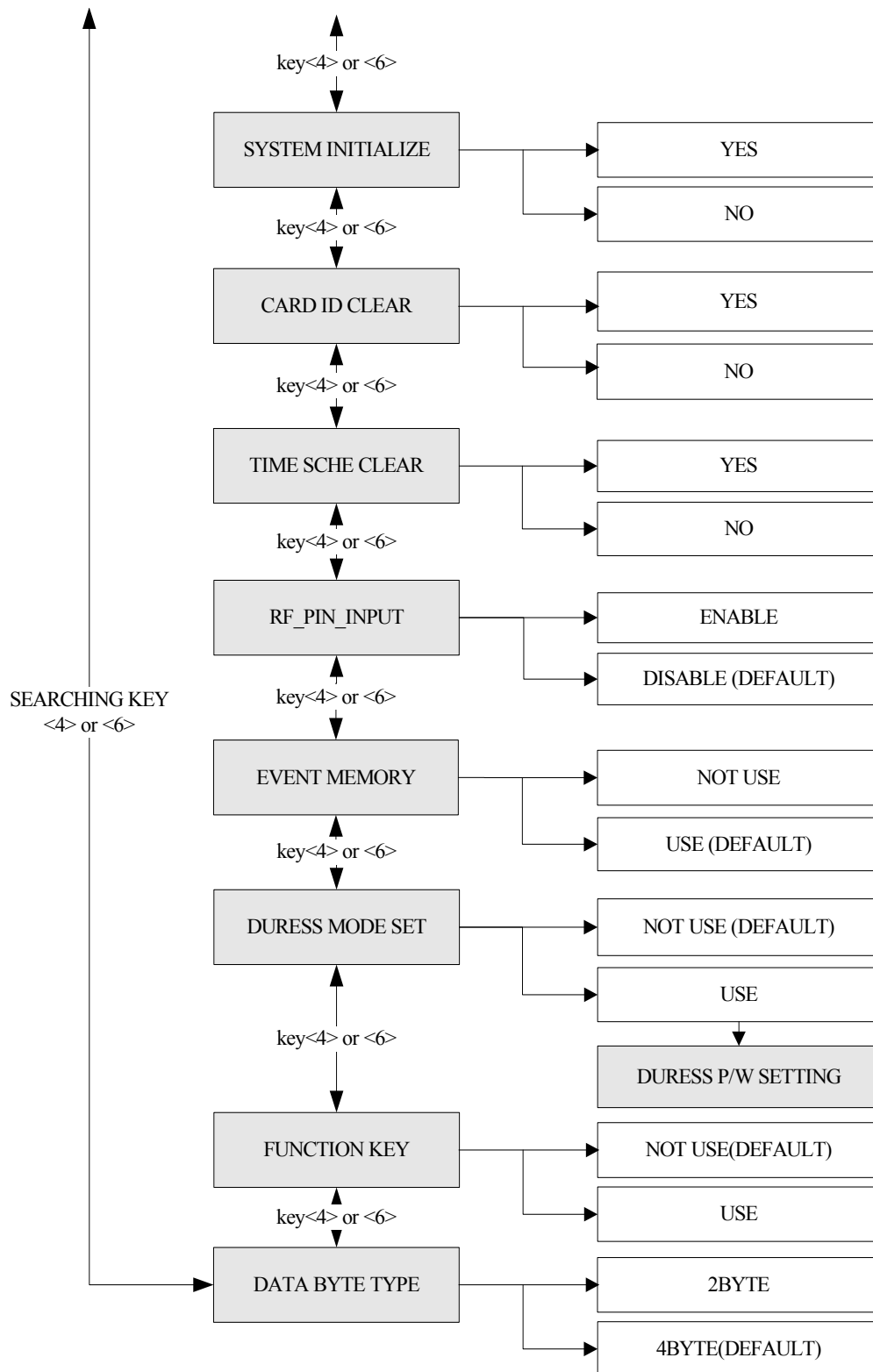
 To setup or to change the 505R settings, you have to enter the **SETUP MENU** first. To do so, press the <0> key eight times for **Master ID** (Default setting “00000000”) and <ENT> key from the Keypad. Now you can get into **SETUP MENU**. There are 4 main **SETUP MENUS** and you first get into [SETUP MENU F1]. You can move to other **SETUP MENUS** by pressing <F1> key for [SETUP MENU F1], <F2> key for [SETUP

**MENU F2], <F3> key for [SETUP MENU F3] and <F4> key for [SETUP MENU F4].**

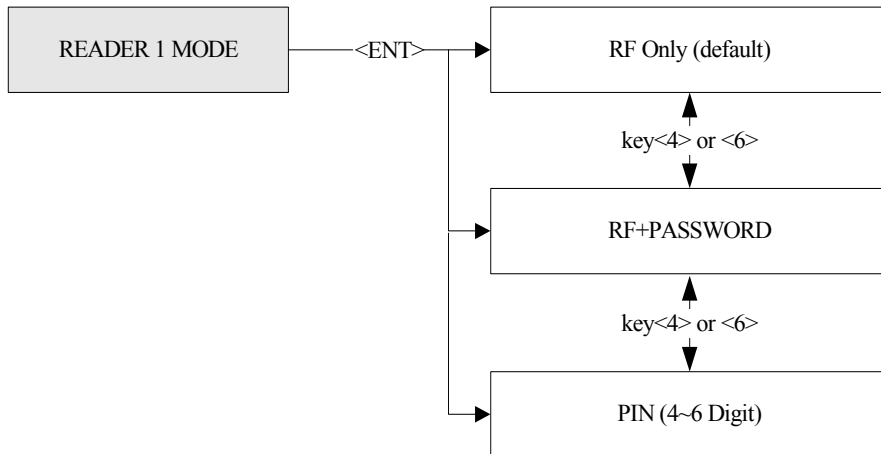
There are several **SUB MENUS** in the main **SETUP MENU**. You can scroll up and down the **SUB MENU** by pressing the <4> and <6> key in the main **SETUP MENU**. If you don't press any key for 60 seconds or if you press <ESC> key, 505R will exit the **SETUP MENU** and return to normal operation. In the case of SR505, Press ten times the <0> key (Default setting “0000000000”) to enter the **SETUP MENU**.

12.1 SETUP MENU F1





12.1.1 READER 1 MODE SETTING



READER 1 MODE  
RF ONLY

☞ READER 1 MODE is set to RF ONLY operating mode. If you want to change the mode to RF+PASSWORD operating mode, press <ENT> key.

READER 1 MODE  
-> RF ONLY

☞ Now you can change the mode by pressing the <4> or <6> key to toggle the mode. If you want to setup the mode displayed, press <ENT> key to accept this mode.

READER 1 MODE  
-> RF+PASSWORD

**Note:**  
RF ONLY: The door is accessible with the proximity card alone.  
RF+PASSWORD: The door is accessible with the proximity card and Password.  
PIN: The door is accessible with the PIN number (4~6digits).  
**If you select PIN, it will be affected to Reader 1 and 2.**

READER 1 MODE  
-> PIN

\* READER 2 MODE setup is the same as above.

\* The SR505 doesn't have READER 2 MODE. It is used RF + PASSWORD mode only Reader #1.

**12.1.2 TIME SETTING**

TIME SETTING

☞ Press <ENT> key and enter 15 digit Date/Time codes then <ENT> key to finish setting.  
YYYY: Year, MM: Month, DD: Date  
hh: Hours (24 hours system), mm: Minutes,  
ss: Seconds  
W: Sun=1, Mon=2, Tue=3, Wed=4, Thu=5, Fri=6, Sat=7  
**Example: 200302101330152**  
**=> Feb.10, 2003 13:30:15, Mon**

YYYYMMDDhhmmssW  
-----

**12.1.3 ANTI-PASS-BACK MODE SETTING**


<p>APB SETUP NOT USE</p>	<p>It shows anti-pass-back operation is not in use. Press &lt;ENT&gt; key. <b>(It only applies when the door has an Exit Reader)</b></p>
<p>APB SETUP -&gt; USE</p>	<p>Press &lt;4&gt; or &lt;6&gt; key for searching the APB mode. Press &lt;ENT&gt; key to select the mode. NOT USE: Anti-pass-back mode is not applied. USE: Anti-pass-back mode is separately applied.</p>
<p>APB SETUP -&gt;All Clear</p>	<p>If you select All Clear, 505R will clear all APB flags and all users are not allowed Exit first.</p>

<p>COMM ID SETTING</p>	<p><b>ADDRESS) SETTING</b> This is the Communication ID setting menu. To change the ID, press &lt;ENT&gt; key.</p>
<p>COMM ID SETTING</p>	<p>The number on the LCD is the current communication ID(Device No.). Press &lt;ENT&gt; key again to set a new communication ID.</p>
<p>COMM ID SETTING</p>	<p>When the cursor is blinking, enter a new ID (two-digit number), then the setting is completed. For the next setting, use &lt;4&gt; and &lt;6&gt; keys. Possible ID is between 00 - 31 inclusive.</p>

**12.1.5 BAUD RATE SETTING**

<p>BAUD RATE 9600</p>	<p>iCON100 supports 4800, 9600, 19200 and 38400bps of baud rate and default setting is 9600bps. Wrong baud rate setting will cause communication errors and you have to set same baud rate to iCON100 and host PC. If you have communication problem, please check followings;                  - Check COMM ID of iCON100 and host PC                  - Check BAUD RATE of iCON100 and host PC                  - Check communication port and cable                  - Check COM port setup of host PC                  Parity: None, Data Bit: 8 bit, Stop Bit: 1 bit                  To change the baud rate, press &lt;ENT&gt; key and select desired baud rate by pressing &lt;4&gt; or &lt;6&gt; key then press &lt;ENT&gt; key.</p>
<p>BAUD RATE -&gt;9600</p>	
<p>BAUD RATE -&gt;19200</p>	

**12.1.6 EVENT CLEAR**

 <p>EVENT CLEAR</p>	<p>When the event memory is full or when you want to change ID COUNT, you can clear the event memory in this menu. Press &lt;ENT&gt; key then press &lt;1&gt; key to clear event memory or &lt;0&gt; key to cancel the operation.  <b>* CAUTION: Before you clear the events, make sure that</b></p>
--	--

EVENT CLEAR  
1 - Yes, 0 - No

**12.1.7 MASTER ID CHANGE**

MASTER ID CHANGE

☞ Press <ENT> key to change the current Master ID. You should use the new Master ID to access the setup menu since the change is finished.

MASTER ID CHANGE  
1:Card 2:Key

☞ Master ID Number is registered in the controller by RF cards or through the keypad. For RF cards, Press <1>key, the keypad, <2>key, or you can quit the registration by pressing <ESC>key.

Scanning...

☞ The reader is waiting for an RF card which is to be registered. The card number will appear with a beep as the card is read. After recognition, the next message will appear.

MASTER ID CHANGE  
[ \_\_\_\_\_ ]

☞ This figure appears when you press the <2>key for through-keypad registration, then you are to enter eight-digit number. **Eight digit ID:** 00000000 ~ 99999999

XXXXX  
XXX


☞ Enter a new Master password (four digits) and finish changing by pressing the <ENT> key.

Master  
Card

☞ The figure indicates that changing of the Master ID has been finished successfully.

The Master ID for 505R is 10 digits number (Default setting "0000000000").

**12.1.8 SYSTEM INITIALIZE**

 SYS INITIALIZE

☞ This operation will initialize the 505R. Press <ENT> key, if an initialization is needed (First time installation or resetting<sup>31</sup> in the event of a malfunction).  
\* **CAUTION: Initializing will erase all stored data in the memory.**

SYS  
INITI

☞ Press the <1> key to initialize or <0> key to cancel the operation.

System  
Initializing..

☞ This message appears while the system is being initialized.  
After the initialization, 505R will return to the Setup menu.

**12.1.9 CARD ID CLEAR**

CARD ID  
CLEA

☞ When you want to delete all User IDs (Card IDs), you can clear all User IDs from the memory. Press <ENT> key, then press the <1> key to clear all User IDs or <0> key to cancel the operation.

CARD ID CLEAR  
1 - Yes, 0 - No

※ **CAUTION: Before clearing all User IDs, make sure that the registered User ID is no longer used otherwise you may lose all registered User IDs.**

**12.1.10 TIME SCHEDULE CLEAR**

TIME SCHE CLEAR

☞ When you want to delete all Time Schedules (01~15), you can clear them from the memory. Press <ENT> key and press the <1> key to clear all T/S or <0> key to cancel the operation.

TIME SCHE CLEAR  
1 - Yes, 0 - No

※ **CAUTION: Before you clear all T/S, make sure that the stored T/S is no longer used, otherwise you may lose all stored T/S in the memory.**

**12.1.11 KEYPAD INPUT SETTING**

 RF PIN INPUT  
DISABLE

☞ This function is to DISABLE/ENABLE the keypad inputs from the Proximity and Keypad Readers. The default setting is to DISABLE the keypad inputs. If you install the Keypad Reader (8bit burst format) and set this mode to ENABLE, you can access the door by pressing an 8digits User ID with the keypad.




RF PIN INPUT  
->ENABLE

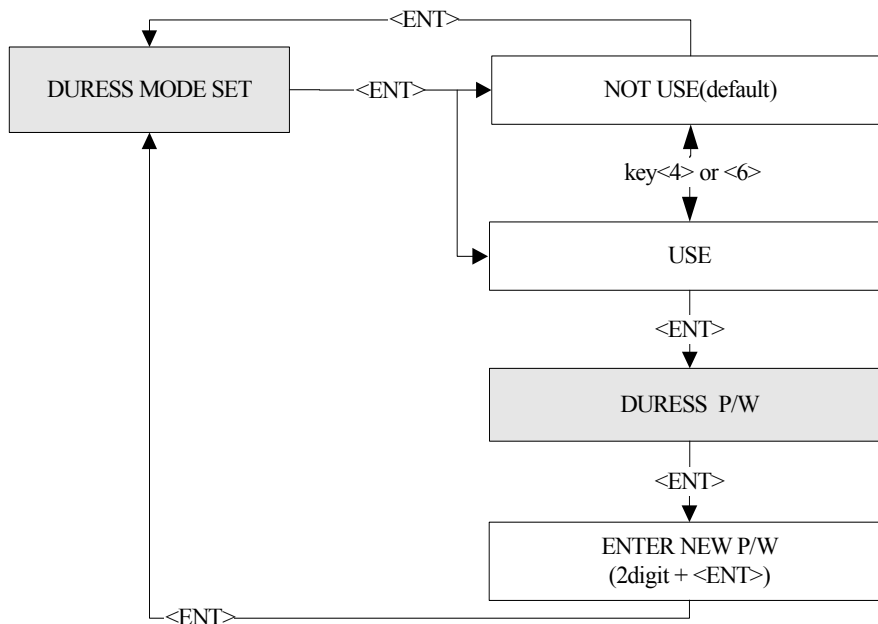
**12.1.12 EVENT MEMORY SETTING**

EVENT MEMORY  
USE


EVENT MEMORY  
->NOT USE

 You can select whether you will use event memory or not. When you select USE and in case of an event memory, 505R generates an error message and keeps all events stored in the memory. When you select NOT USE, 505R will not generate an error and new event overwrite into the event buffers. If you use 505R for standalone (just for door access), select NOT USE.

**12.1.13 DURESS MODE SETTING**



DURESS MODE SET  
NOT USE

 You can select whether the DURESS mode is used for READER1. Default setting is NOT USE. If you want to setup Duress mode, press the <ENT> key and select ->USE by pressing the <4> or <6> key. Press the <ENT> key. The LCD will display default Duress Password '00'. Press <ENT> key again to enter a 2 digits Duress Password. Press <ENT> key to finish the setting.

DURESS MODE SET  
-> USE

DURESS P/W  
00

**12.1.14 FUNCTION KEY SETTING (SR505 FUNCTION)**

FUNCTION KEY  
NOT USE

FUNCTION KEY  
-> NOT USE

FUNCTION KEY  
-> USE

WAIT TIME  
00

✎. The User can decide what will be shown on display matched with Function key. Default value for FUNCTION KEY is "NOT USE" and set "USE" in order to apply FUNCTION KEY F1, F2, F3, F4 for Time & Attendance. If WAIT TIME is set, system will be back to default status (display [OK]). Press "ENT" key to change the value from left figures.

✎. Select mode by pressing <4>,<6> key. After selecting mode, press "ENT" to complete setting.

NOT USE: The value matched with the Function key will not be changed until another function key is pressed.

USE: User can see "OK" under normal status and the value matched with Function key will be shown on certain time when function key is pressed.

WAIT TIME: Time duration between the display of value matched with function to display "OK"(default).

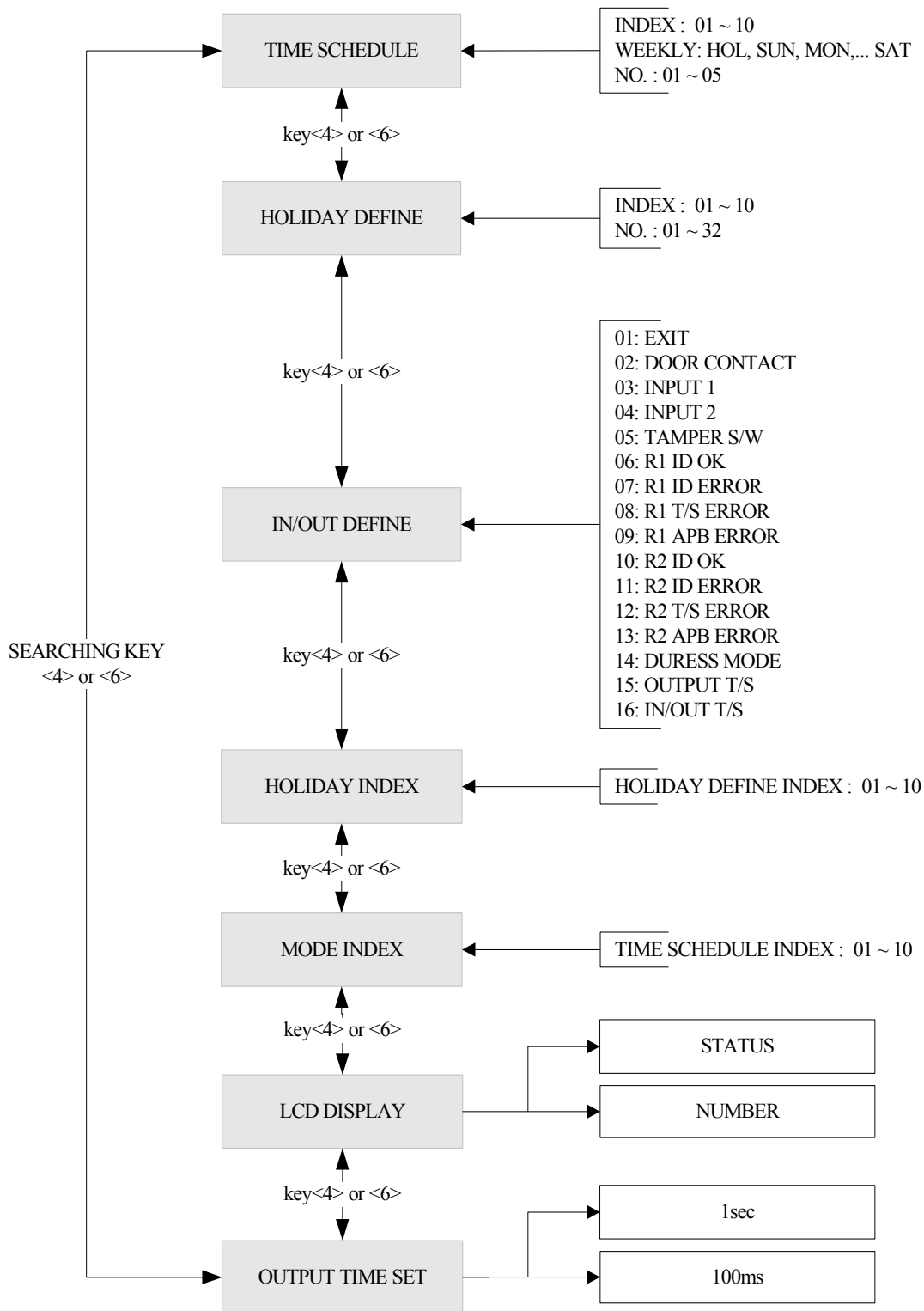
**12.1.15 DATA BYTE TYPE SETTING (SR505 FUNCTION)**

DATA BYTE TYPE  
4BYTE

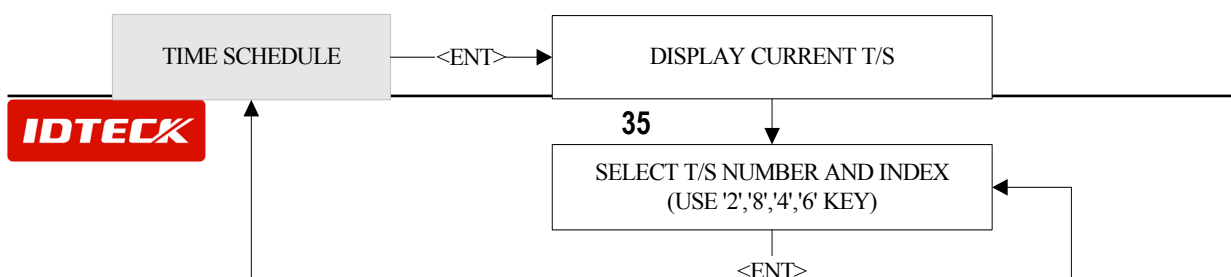
DATA BYTE TYPE  
-> 2BYTE

✎. Card data management can be selected in this menu. The default value is 4 BYTE and generally this value may not need to be changed. If customer needs to add more units where SR505 (V1.0) is installed, the user needs to change the value to 2BYTE. **Otherwise, please do not change this value.**

**12.2 SETUP MENU F2**



**12.2.1 REGISTERING AND CHANGING TIME SCHEDULE**



TIME  
SCHEDUL

T/S: 01 HOL #1  
00:00 – 00:00

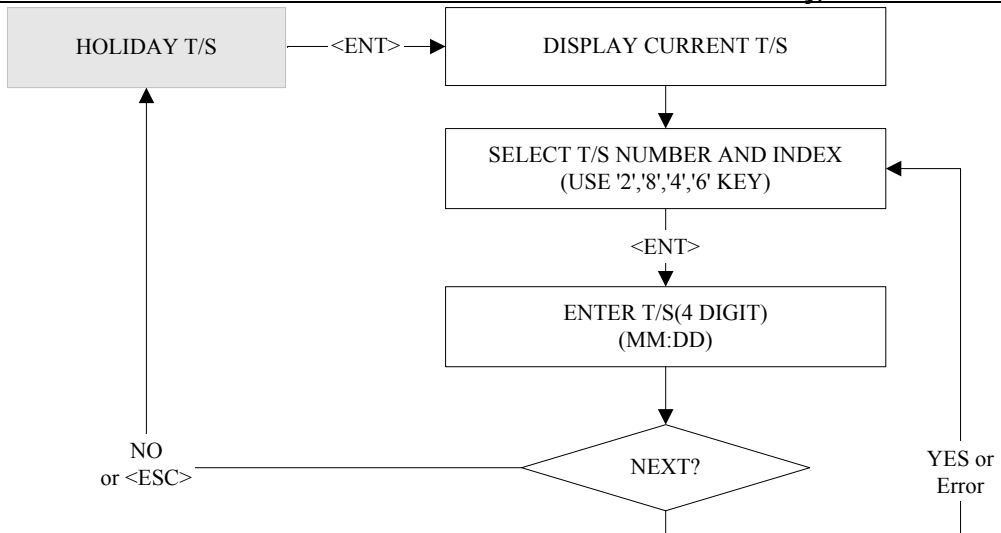
☞ You may program time schedules to grant and restrict access for each user. There can be up to ten different schedules. A minimum of one schedule must be defined. If only one schedule is programmed the most common setting allows access for all users 24 hours / day. A time schedule can be programmed for each day of the week and holidays, and five shifts can be defined for each day. To set time schedules, press <ENT> key from this menu. If you want to set time schedules, press <ENT> key when this figure is displayed.

☞ Press <2> key or <8> key to adjust the Time Schedule (T/S) number (1-10) and the day of the week (Mon-Sun and 'HOL'). Define which shift of the day (1-5), using the <4> key and <6> key. 'HOL' refers to specific holidays you will register(see 13.2.2 page 28). Press <ENT> key, and the cursor will blink, then enter the beginning time of the period, in the form of hour(2-digit):minute(2-digit) and the ending time in the same form. Then the lower line will indicate the defined period. For more schedules, repeat the process. To end time scheduling, press <ESC> key.

☞ **Possible values for time scheduling**

- 1) Time schedule number: 01 ~ 10 (Needed when IDs are registered)
- 2) A day of the week: MON, TUE, WED, THU, FRI, SAT, SUN, HOL
- 3) Index: 1 ~ 5(referred to the five periods of time of a day)

**12.2.2 REGISTERING AND CHANGING HOLIDAY TIME SCHEDULE**



**HOLIDAY T/S**

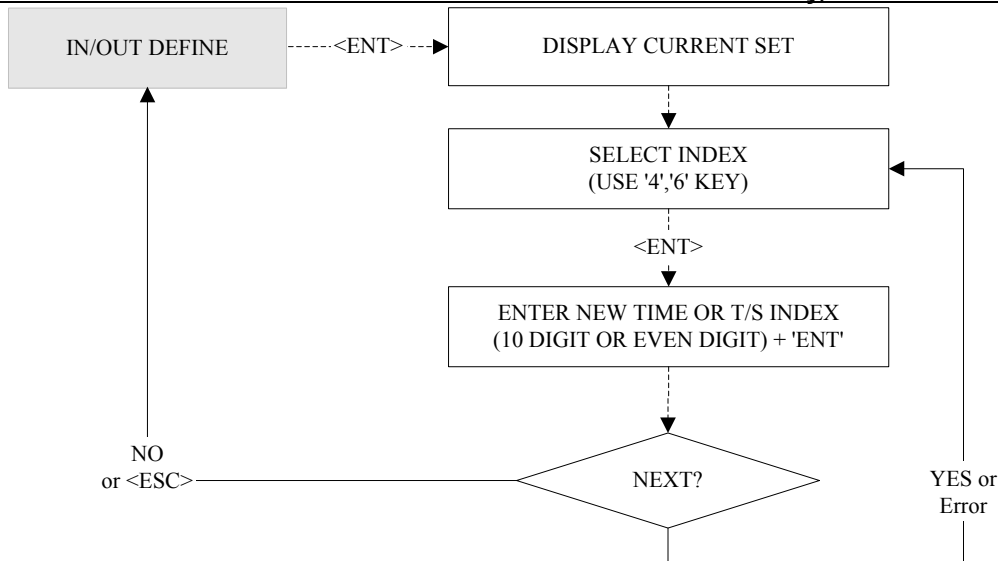
**☞**. You can register up to 32 specified “holidays,” per year for each schedule setting. There can be 10 other registration sets created, meaning holidays can be set for up to 10 years. Press <ENT> to register the days.

**HOL T/S: 01  
#01**

**☞**. With the <2> key and <8> key, select the Date Registration Set Number (1~10), and with the <4> key and <6> key, select the index for the days (1~32). Press <ENT> key and the cursor will blink. Enter the date, in form of the Month (1~12). The LCD will indicate the defined date. Now a day has been registered. For further registration, repeat the process.  
To end registering the days, press <ESC> key to return to the setup menu.

**☞**. 1) Holiday Time Schedule (Date registration set) numbers : 01 ~ 10(10 years)  
2) Index for the days: 01 ~ 32(32 days)

**12.2.3 DEFINING OUTPUTS IN COMPLIANCE WITH INPUTS**



IN/OUT  
DEF I N E

**✎** You can program or deactivate each output to be generated and choose how long (in seconds) they will last. There are default values as seen in the table 2 below.

1.EXIT  
03 00 00 00 00

**✎** Select input sources by changing Index numbers with the keys <4> or <6>. Press <ENT> key and you will see a cursor blinking at the first digit from the left of the five couples of digits, which corresponds to Relay1, Relay2, TTL1, TTL2 and Buzzer respectively. Enter the delay times (refer to the table below) one by one. An input/output definition has been completed now. For further definition, repeat the process. To end defining inputs/outputs, press <ESC> key and you will see the first figure of the menu.

**Note:** The five couples of digits of Output T/S [15] and Input/Output T/S [16] are time schedule indexes.

**12.2.4 HOLIDAY INDEX SETTING**

HOL I DAY  
I N D E X

T/S\_I N D E X  
01

**✎** Holiday Index is to link the Holiday Schedule (H/S) to Time Schedule. You can setup one Holiday Index (01~10) to one of T/S Index (01~10) so that the Holiday Time Code in the T/S can be applied for the holidays in the H/S. Default HOLIDAY CODE is '00' which means no holidays are applied to T/S. Select HOLIDAY INDEX menu and press <ENT>. Select desired T/S\_INDEX (01~10) by pressing the <4> or <6> key and press <ENT> key to input a 2 digits HOLIDAY CODE. Press <ENT> to finish the setting.

**12.2.5 READER TIME SCHEDULE SETTING**

**ID** MODE I N D E X  
00


**✎** If you set **30** the RF+PASSWORD operating mode (Refer to MODE SELECTION), you can apply the Time Schedule for MODE INDEX. During the time period of Time Code in the T/S, Reader #1 will operate on RF ONLY mode. The rest of time period, Reader #1 will operate RF+PASSWORD

MODE INDEX  
00

**12.2.6 LCD DISPLAY TYPE SETTING**

LCD DISPLAY  
 STATUS


LCD DISPLAY  
 -> NUMBER

 This function is to set STATUS/CARD NUMBER, the card reading from the Proximity and Keypad Readers.  
 STATUS: The Fixed message is displayed on the LCD when card reading from the reader.  
 CARD NO.: The card number is displayed on the LCD when card reading from the reader. Default setting is STATUS.

**12.2.7 OUTPUT TIME UNIT SETTING**

OUTPUT TIME SET  
 1sec

OUTPUT TIME SET  
 -> 100ms

 This menu is to define time unit of 5 output ports.  
 1sec: define time of output by second in the in/out define.  
 100 ms: define time of output by 0.1 second (100ms) in the in/out define.

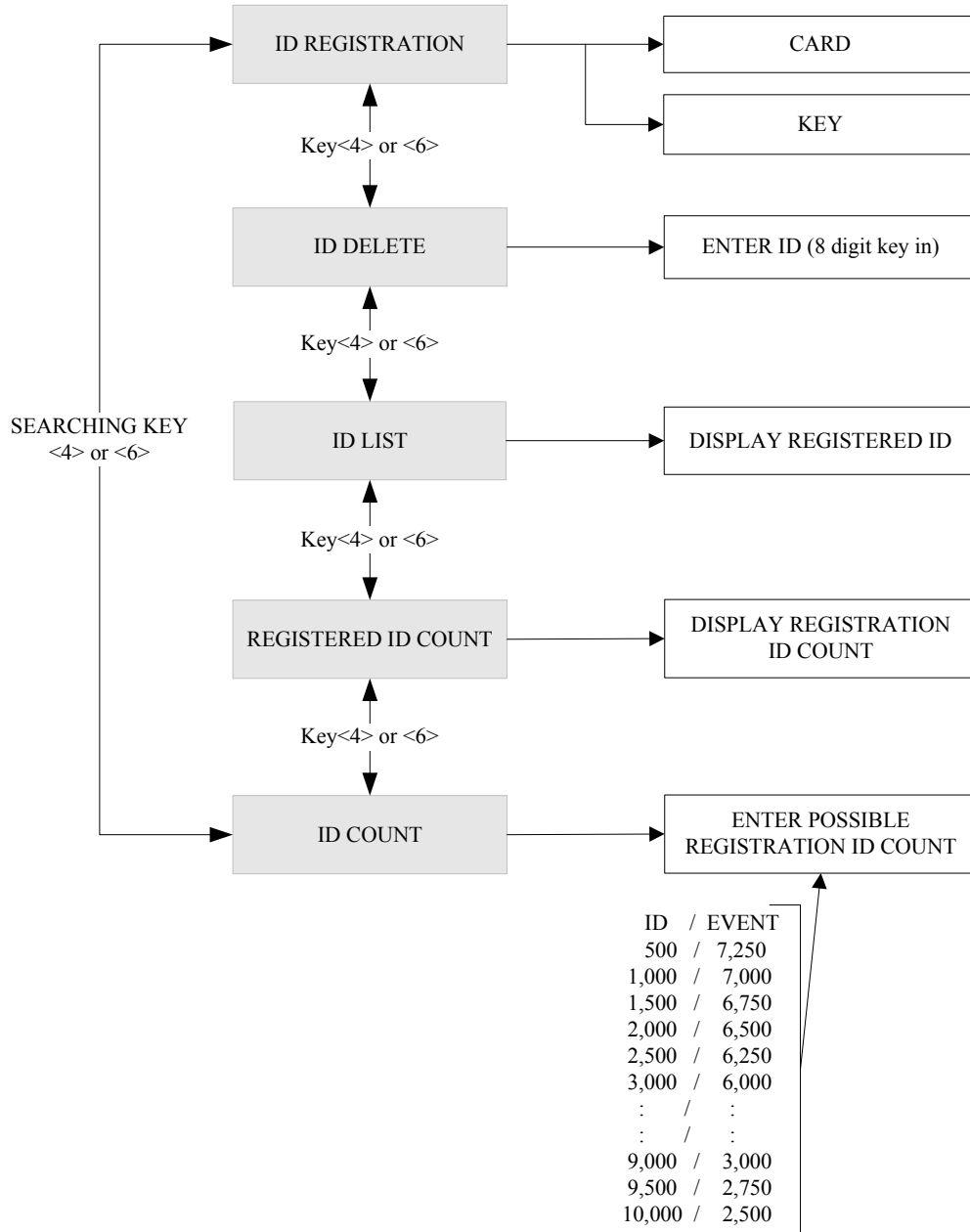
Ex) In order to have the relay #1(Out #1) operate for 3 second, responding to the exit button input, set as follow.

- Define 1 Exit & Relay as "03" in IN/OUT define
- Define the OUTPUT TIME SET as second.

Ex) In order to have the relay #1(Out #1) operate for 0.3 second, responding to the exit button input, set as the following:

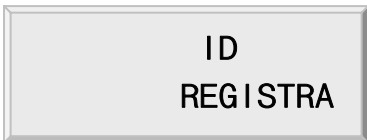
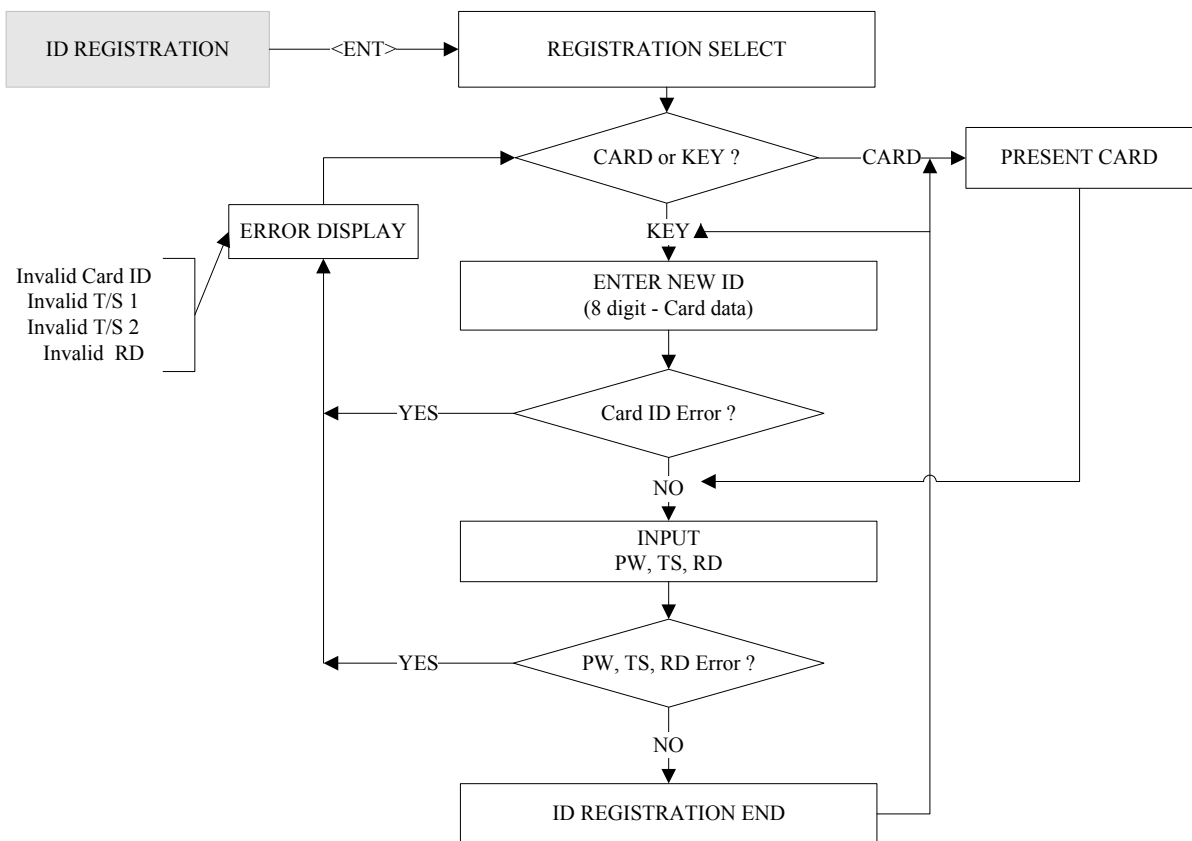
- Define one Exit & Relay as "03" in IN/OUT define
- Define the OUTPUT TIME SET as 100ms.

**12.3 SETUP MENU F3**

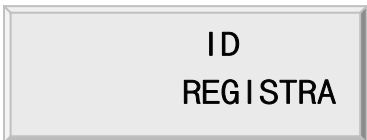




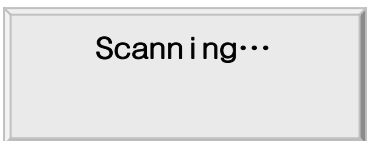
12.3.1 CARD REGISTRATION



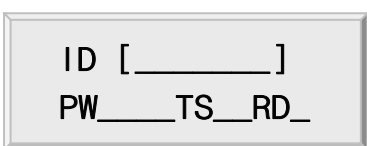
☞. Press <ENT> key to register new User ID.



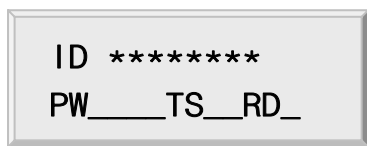
☞. ID Number is registered in the controller by RF cards or through the keypad. For RF cards, press <1>key, the keypad, <2>key, or you can quit the registration by pressing <ESC>key.



☞. The reader is waiting for an RF card which has to be registered. The card number will appear with a beep as the card is read.



☞. Enter 8 digit Card ID in the ID [ \_\_\_\_\_ ] field and press <ENT> key. Enter 4 digit Password in the PW [\_\_\_\_] field and press <ENT> key. Even if you don't use a Password, it is necessary to enter 4 digit Password as default. (Example: '0000')



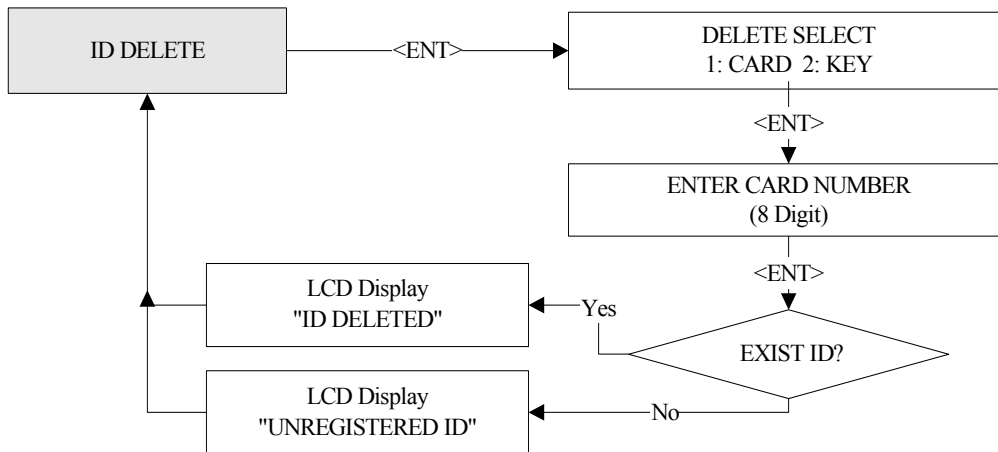
☞. The LCD's lower line indicates that the four-digit password, time schedule index and reader code are needed. Enter those values, referring to the following information. Then the registration of the card is finished.

ID Registered

- 1) PW (Password): the password used in RF + password mode.
- 2) TS (Time schedule):
  - 00: Anytime accessible
  - 01 ~ 10: Accessible according to each T/S index
- 3) RD (Reader code) - 1: for using reader 1 alone,
  - 2: for using reader 2 alone,
  - 3: for using both reader 1 and 2.

ID number of SR505 is 10 digits decimal number.

**12.3.2 ID DELETE**



ID DELETE

☞ Enter 8 digit User ID that you want to delete and press <ENT>.

ID DELETE

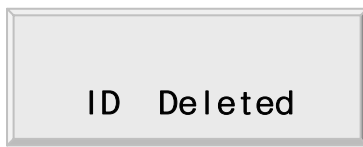
☞ ID Number is deleted in the controller by RF cards or through the keypad. For RF cards, press <1>key, the keypad, <2>key, or quit the registration by pressing <ESC>key.

Scanning...

☞ This figure appears when you press the <1>key. The reader is waiting for an RF card which is to be deleted. The card number will appear with a beep as the card is read.

Enter Card No.  
-> \_\_\_\_\_

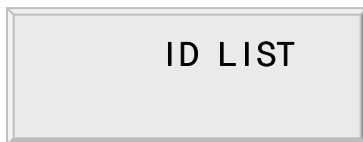
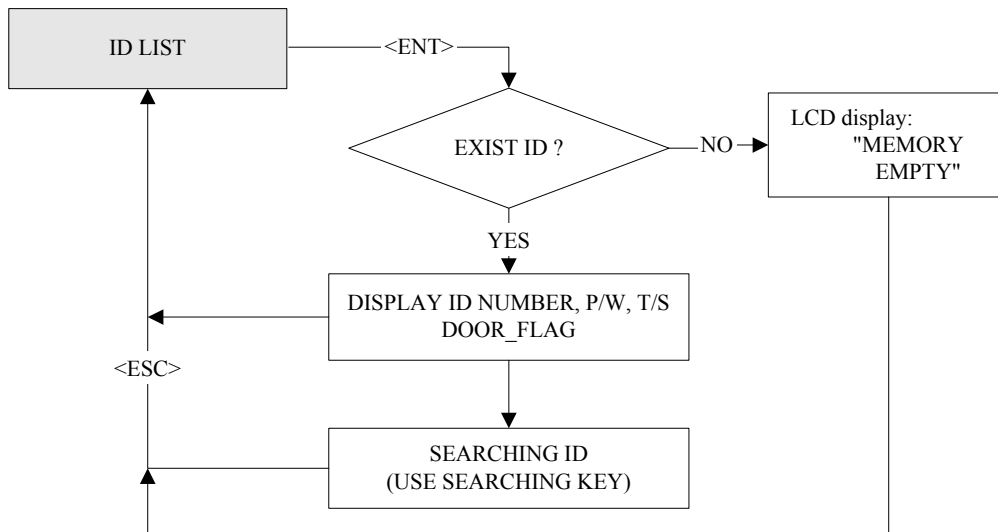
☞ Enter 8 digit User ID that you want to delete and <ENT>. ID number consists of 3-digits Facility code from 000 to 255 and 5-digits ID number from 00000 to 65535 so that the 8-digits ID number can not exceed 25565535.



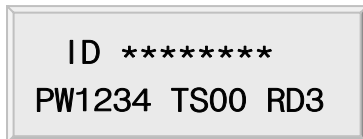
If the User ID you entered is found, the User ID will be deleted and display "ID Deleted". If the user ID is not found, the display will show "ID Unregistered". You may repeat ID DELETE many times. Press <ESC> key to exit the menu.

ID number of SR505 is 10 digits decimal number.

**12.3.3 ID LIST**



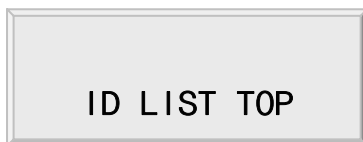
If you want to see the list of registered User IDs, press the <ENT> key in this menu.



Put in 8 digit user ID, 4 digit password, the applied T/S and the reader code is displayed on the LCD. You can scroll up and down the list by pressing <4> and <6> keys. Press <ESC> key to return to the setup menu.



"MEMORY EMPTY" message will be displayed if there is no registered User ID.



"ID LIST TOP" message will be displayed first when the first registered User ID is displayed on the LCD.



"ID LIST BOTTOM" message will be displayed first when the last registered User ID is displayed on the LCD.

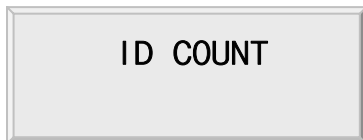
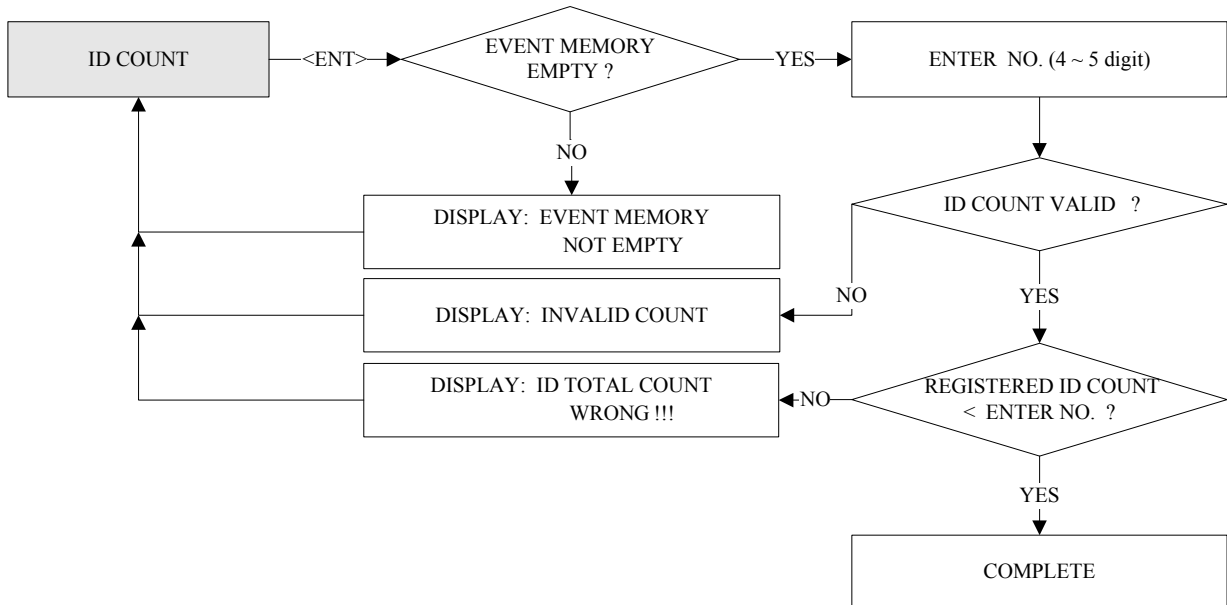
ID number of SR505 is 10 digits decimal number.

**12.3.4 REGISTERED ID COUNT**

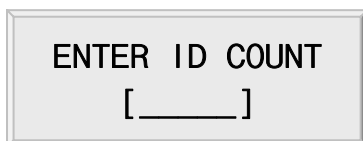


This menu displays the total number of registered User ID. It automatically counts when you register or delete User IDs. The LCD shows 1234 User IDs registered in the

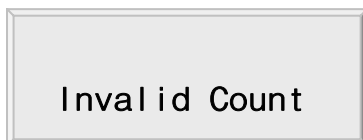
**12.3.5 ID COUNT**



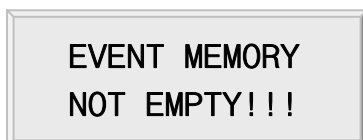
Press <ENT> key to change maximum ID Count.  
**Note! This must be setup first before any other setup. Please refer to section 7.4 ID COUNT SETTING.**



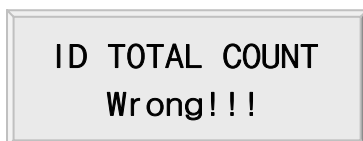
Enter number from 500 to 10000 in multiple of 500 for the maximum User ID count. Example: 500, 1000, 2000, 10000. Then press <ENT> key.



LCD will display "Invalid Count" error message when you enter the ID Count which is not multiple of 500 or the ID Count is not in between 500 and 10,000.

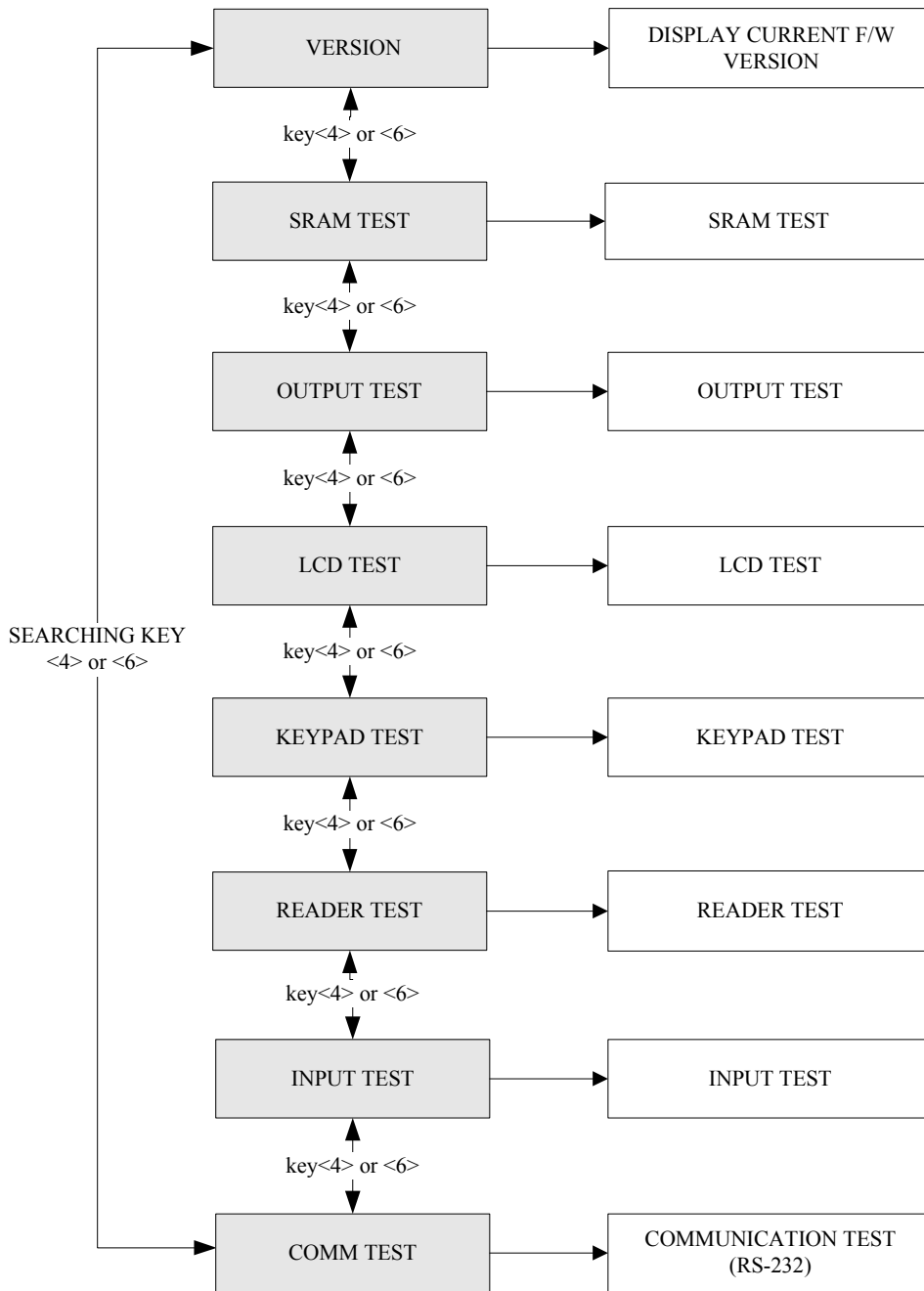


LCD will display "EVENT MEMORY NOT EMPTY!!!" error message when you want to change ID Count and there are some events still existing in the Event Buffer.

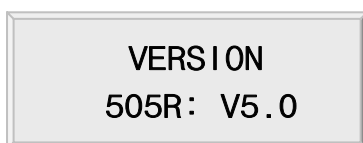


LCD will display "ID TOTAL COUNT Wrong!!!" error message when you enter the less ID Count number than the number of User ID registered in the memory.  
**Note! This must be set up first before other setups.**

**12.4 SETUP MENU F4**



**12.4.1 VERSION CHECK**



The version of the controller's firmware is displayed on the LCD. Press <4> or <6> key to look for other menus of setup menu F4.

**12.4.2 SRAM TEST**

SRAM TEST

☞ To test the SRAM memory, press <ENT> key.

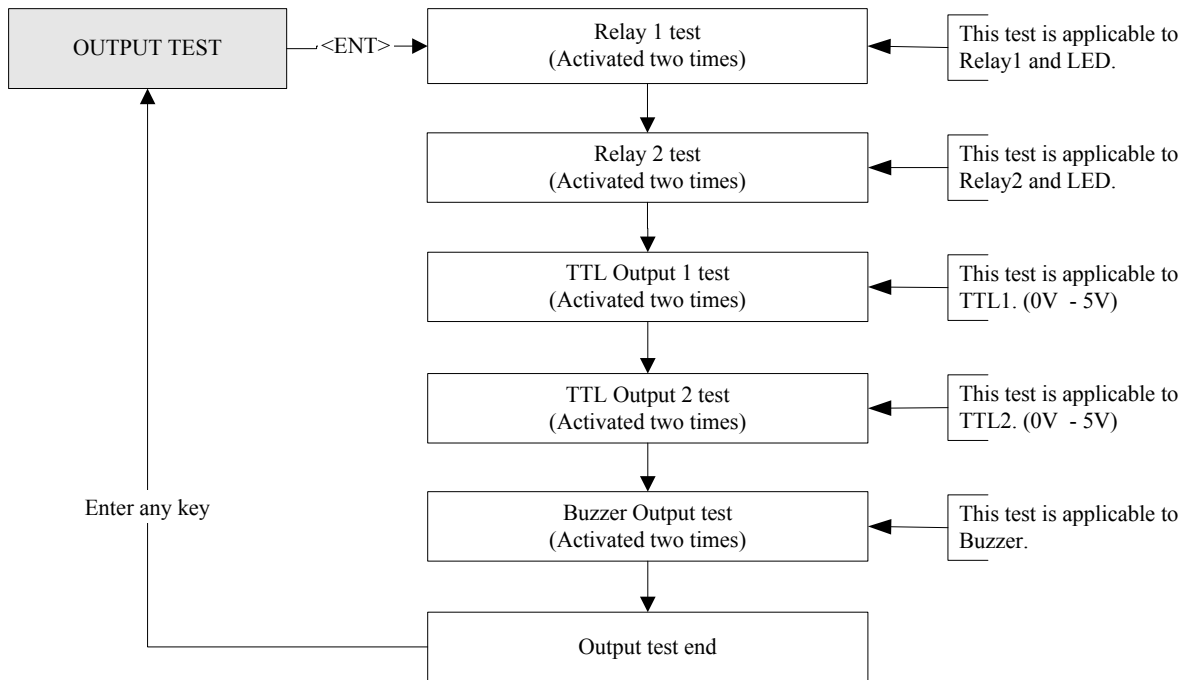
Memory fail!!! 00  
RAM testing...

☞ If the SRAM has problems, LCD will show the memory block number with Memory fail message. In this case, you have to contact technical support. Press any key to return to the setup menu.

RAM test pass!!!  
Press any key...

☞ If the SRAM is working properly the LCD will show RAM test pass message. Press any key to return to the setup menu.

**12.4.3 OUTPUT TEST**



OUTPUT TEST

☞ To test the outputs, press <ENT> key.

OUTPUT 5  
Press any key...

☞ The output test will proceed on and off twice for each output. The first two tests are for the output relays (Relay#1~Relay#2). You can hear the mechanical sound of relays and following two tests are for TTL output testing. The last test is for the built-in buzzer and you can hear two beep sounds. Press any key to return to the setup menu.

**12.4.4 LCD TEST**

LCD TEST

☞ Press <ENT> key to continue the test. LCD will display all characters on the screen.

Last Update  
Press any key...

☞ When the test is done, the LCD will show "Last Update Press any key". Press any key to return to Setup menu.

**12.4.5 KEYPAD TEST**

KEYPAD TEST

☞ Press <ENT> key to start the keypad test.

0123456789ABCDEF

☞ LCD will display "0123456789ABCDEF" on the bottom line of LCD. Press each key from the keypad. The depressed key will disappear from the LCD. Note that F1 key is "A", F2 key is "B", F3 key is "C", F4 key is "D", ESC key is "E" and ENT key is "F" on the screen. After the test is done, it returns to setup menu.

**12.4.6 READER TEST**

READER TEST

☞ Press <ENT> key for the reader test.

Scanning ...

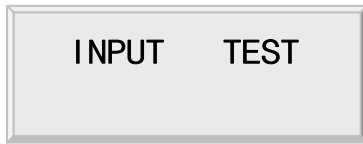
☞ LCD will display "Scanning..." for reading the cards. Present the card to one of the readers.

Reader 1  
00312345

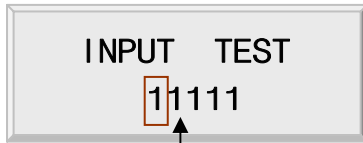
↑                    ↑  
Reader #          Card #

☞ When the reader successfully read the card, LCD will display reader number and the 8 digit card number on the LCD. Press <ESC> key to return to the setup menu. **ID number of SR505 is a 10 digit Decimal number.**

**12.4.7 INPUT TEST**

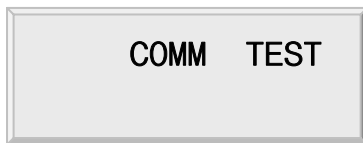


☞ . Press <ENT> key for the input test.

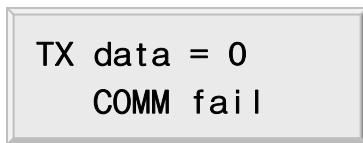


☞ . The 5 digits shows the input status and “1” indicates that the input port is open circuit and “0” indicates that the input port is short to ground level.  
Press <ESC> key to return to the setup menu.

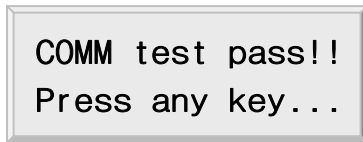
**12.4.8 COMMUNICATION TEST**



☞ . Before this communication test, connect the RS232-RX and RS232-TX wires together. Then press <ENT> key.



☞ . This test is a loop test and 505R sends a character to RS232-TX and check whether the RS232-RX receive the character or not.  
If you have an error, please contact our service facility.



☞ . After the test is done, LCD will display “COMM test pass!!”. Press any key to return to the setup menu.



**13. Appendix**

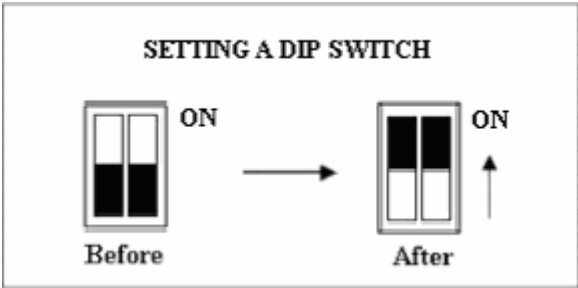
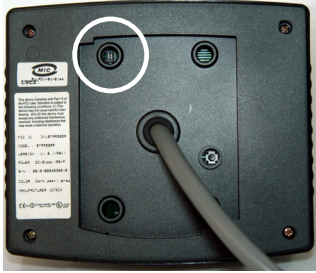
**A. THE RELATION BETWEEN INPUT AND OUTPUT (DEFAULT)**

**1. The relation between Input and Output**

Index No	Relay#1	Relay#2	Relay#3	Relay#4	TTL#1
[1] Input #1(EXIT BUTTON)	<b>03</b>	00	00	00	00
[2] Input #2(Door Contact SW)	00	00	00	00	00
[3] Input #3	00	00	00	00	00
[4] Input #4	00	00	00	00	00
[5] Input #5	00	00	00	00	00
[6] Reader#1 ID OK	<b>03</b>	00	00	00	00
[7] Reader#1 ID Error	00	<b>03</b>	00	00	00
[8] Reader#1 ID T/S Error	00	<b>03</b>	00	00	00
[9] Reader#1 APB Error	00	<b>03</b>	00	00	00
[10] Reader#2 ID OK	<b>03</b>	00	00	00	00
[11] Reader#2 ID Error	00	<b>03</b>	00	00	00
[12] Reader#2 ID T/S Error	00	<b>03</b>	00	00	00
[13] Reader#2 APB Error	00	<b>03</b>	00	00	00
[14] DURESS MODE	<b>03</b>	00	<b>03</b>	<b>03</b>	00
[15] OUTPUT TIME SCHEDULE	00	00	00	00	00
[16] INPUT TIME SCHEDULE	Input #1	Input #2	Input #3	Input #4	Input #5
	00	00	00	00	00

- \* Index No. [1] ~ [14]: The value indicates operation time (second) of each output for the input signal.
- \* Index No. [15]: The value indicates time schedule code (index) that each output operation has to be applied.
- \* Index No. [16]: The value indicates the time schedule code (index) that each input #1 (Exit button) ~#5 operation has to be applied.

**B. TROUBLE SHOOTING**

<p><b>☞ System operates abnormal.</b></p>	
Cause	Of that user mistake, memory (SRAM) is damaged, or the system is defective of the device.
Solution	<p>1. Check BAT connection Switch(place template hole of reverse side). You have to push up the Switch, and system initialize before system installation.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Figure: DIP SWITCH SETTING</p> </div> <div style="text-align: center;">  <p>Figure: DIP SWITCH LOCATION</p> </div> </div> <p>2. If the trouble remains after checking the above, contact a designated service center.</p>

<p><b>☞ Broken or abnormal letters shown on the LCD, when powered on.</b></p>	
Cause	SRAM backup battery problem or LCD module problem.
Solution	<p>1. Initialize the controller</p> <ul style="list-style-type: none"> <li>- Connect the cyan wire, pink wire and black wire together.</li> <li>- Switch the main power on.</li> <li>- Enter key &lt;1&gt;.</li> <li>- Check if the LCD shows the message “Initialize END” “turn off Power...”.</li> <li>- Switch main power OFF.</li> <li>- Separate 3 wires (pink, cyan and black (GND) ).</li> <li>- Switch main power ON again.</li> </ul> <p><b>* Aware that all the setting values will be back to the default value and data memory will be cleared. (ID data clear/Event data clear/ Time Schedule data clear/ etc.)</b></p> <p>2. Set up the date and time on SETUP MENU F1-&gt;SYS INITIALIZE and SETUP MENU F1-&gt;TIME SETTING.</p> <p>3. If you still have problems, please contact a designated service center.</p>

<b>☞ Randomly changed value of in/out define from previously setting value after power reset.</b>	
Cause	Discharge of RAM Back-Up battery / Problem during the main power off.
Solution	<ol style="list-style-type: none"> <li>1. Check if the Back-Up Battery Jumper has been shortened.</li> <li>2. Check if the voltage of Back-Up Battery is over 3.6V.</li> <li>3. If it is over 3.6V, make initialization process as below. <ul style="list-style-type: none"> <li>- Connect the cyan wire, pink wire and black wire together</li> <li>- Main power ON.</li> <li>- Enter key &lt;1&gt;.</li> <li>- Check if the LCD shows message of "Initialize END" "turn off Power...".</li> <li>- Main power OFF</li> <li>- Separate 3 wire(pink, cyan and black(GND))</li> <li>- Main power ON again.</li> </ul> <p><b>* Aware that all the setting value be back to the default value and data memory be clear.</b></p> <p><b>(ID data clear/Event data clear/ Time Schedule data clear etc.)</b></p> </li> <li>4. Define IN/OUTPUT value as intend and keep the main power on more than 5 days.</li> <li>5. If after all the above, the problem remains, please contact a designated service center.</li> </ol>

<b>☞ A valid card became unregistered after batch-downloading IDs from PC.</b>	
Cause	Wrong procedure during download or a component defect.
Solution	<ol style="list-style-type: none"> <li>1. The card ID might be registered only to the controller and not registered in the PC. During the process of downloading IDs, 505R first erase the ID memory of the unit, therefore if the IDs from the PC didn't contain the card ID, this can happen.</li> <li>2. Check whether the card ID is registered in the PC.</li> <li>3. If not, please register the number and try downloading again.</li> <li>4. If the trouble remains after the procedure above, contact a designated service center.</li> </ol>

<b>☞ It doesn't enter the Setup Mode after entering the Master ID "00000000".</b>	
Cause	The Master ID might have been changed or components are defective.
Solution	<ol style="list-style-type: none"> <li>1. Try changing the Master ID through the application S/W (It'll be changed to "00000000"). <ul style="list-style-type: none"> <li>- Note that the Master ID for SR505 is entering 10 times &lt;0&gt;, "0000000000".</li> </ul> </li> <li>2. When it is not feasible, initialize the unit as following: <ul style="list-style-type: none"> <li>- Press the two System Initialization switches simultaneously while power is on.</li> </ul> </li> </ol>

	<ul style="list-style-type: none"> <li>- Wait until the message 'Initialize END Turn OFF Power...' appears on the LCD and turn it off and on again. Try entering the Setup mode.</li> <li>- Note that all the value will be set to default, including the IDs after initializing.</li> </ul> <p>3. If the trouble remains after the procedure above, contact a designated service center.</p>
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<b>☞ No problem with accessing by card, but cannot access with the PIN input.</b>	
Cause	An error in Setup or possible component defect.
Solution	<p>1. Check whether a beep sound is generated when you press a key. When a beep sound is generated, the problem may be an error in setup. Proceed like followings:</p> <ul style="list-style-type: none"> <li>- Enter the Master ID ("00000000" default) to enter the Setup mode. (Note that the Master ID for SR505 is 10 times &lt;0&gt;, "0000000000".)</li> <li>- Press &lt;F1&gt; key.</li> <li>- [READER 1 MODE] will appear on the LCD, then use the key &lt;6&gt; to choose [RF_PIN_INPUT] and select 'Enable' as wanted.</li> </ul> <p>2. When there is no beep sound or already enabled Key-in functions, contact a designated service center.</p>

<b>☞ Can I set the controller to operate in RF only mode for one card and in RF+P/W mode for another?</b>	
Cause	N/A
Solution	<p>1. Do not mix the working mode for one Reader.</p> <p>2. One reader can be set to operate in RF only mode and another one in RF+P/W mode.</p>


<b>☞ The Setup mode suddenly goes back to the Normal operating mode.</b>	
Cause	Time out error
Solution	In the Setup mode, it is programmed to do so when there is no key-in or reading card within 60 seconds.

<p><b>☞ The reader seems to read cards, but the controller does not respond or does not respond properly, such as displaying wrong card numbers in the reader test mode.</b></p>	
Cause	Reader defect, wiring error between the reader and the controller or the electric noises around.
Solution	<ol style="list-style-type: none"> <li>1. Be sure that the reader reads the card ID when you present a card.</li> <li>2. Be sure that the reader format is correct. 26bit Wiegand or 34bit Wiegand for SR505</li> <li>3. Check the wiring between the reader and 505R.               <ul style="list-style-type: none"> <li>- Check the wires of Wiegand data lines D0 and D1 which is connected correctly.</li> <li>- Connect the controller ground to the ground wire of the reader and it is recommended to connect them to an earth ground.</li> </ul> </li> <li>4. Using an oscilloscope, check the shape of signals from the reader at the controller's side.               <p>When noises are shown on the signals, it is recommended to use shielded wires and the unused wires to the common ground. You can also use repeaters.</p> </li> <li>5. Check the maximum cable length which may be indicated on the reader manual.</li> <li>6. If the trouble remains after the procedure above, contact a designated service center.</li> </ol>

<p><b>☞ Keeps making buzzer sound: “beep~ beep ~ beep” or “beeeeeeeep~~~~”.</b></p>	
Cause	Error in Installation, Door status or Internal circuits.
Solution	<ol style="list-style-type: none"> <li>1. Check the door status. It occurs in case that the door is opened over 20 sec after the proper door open time.</li> <li>2. Check the door contact sensor type: it should be NO type.</li> <li>3. Check in [IN/OUT DEFINE] of F2, the fifth Time schedule code (01~10) value of 15 output T/S. If the time schedule code is set between 01 up to 10 and if the present time is included in the schedule.               <p>If it is set to unintended value, change it to “00” ( Programmable via PC software)</p> </li> <li>4. If the trouble remains after checking the above, contact a designated service center.</li> </ol>

<p><b>☞ “SCHEDULE ERROR” message shows when RFID card is read.</b></p>	
Cause	Error in RFID card registration, time schedule setting or the system itself.
Solution	<ol style="list-style-type: none"> <li>1. If it was a properly operating unit before, there has been an electric shock that damaged the internal memory and data. Please initialize the unit as instructed in the manual.</li> <li>2. Check if ID information has been put in incorrectly during its registration.               <p>* Register ID again checking the following points.</p> </li> </ol>

	<p>-In order to restrict access of the ID user for specific time zone as instructed in the manual, register time schedule in advance and apply the time schedule code(1~10) in the registration of the user ID.</p> <p><b>- In order to allow the user to access at all times, put in “00”.</b></p> <p>3. Use software for time schedule setting in case it is connected to PC as the software manual.</p> <p>4. If the trouble remains after checking the above, contact a designated service center.</p>
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<p> <b>“ACCESS DOOR ERR” message shows when the RF ID card is read.</b></p>	
Cause	Incorrect user setting or false of internal circuit.
Solution	<p>1. If it was a properly operating unit before, there has been an electric shock that damaged the internal memory and data. Please initialize the unit as instructed in the manual.</p> <p>2. Check if ID information has been put in incorrectly during its registration.</p> <p>* Register ID again and check the following points:</p> <ul style="list-style-type: none"> <li>- Since the controller has two reader ports, define “RD” – door for the user to be allowed to access (Reader1 only: “1”, Reader 2 only: “2”, Reader 1 &amp; 2 both: “3”)</li> <li>- If RD is set as “1”, only when the card is read at Reader 1, the door opens but not at Reader2. If it is read at Reader 2, “ACCESS DOOR ERROR” message shows up.</li> <li>- If RD is set as “2”, only when the card is read at reader 2, the door opens but not at reader1. If it is read at reader 1, “ACCESS DOOR ERROR” message shows up.</li> <li>- If RD is set as “3”, reader 1 &amp; 2 both open each door.</li> </ul> <p>3. Use software for time schedule setting in case it is connected to a PC, shown as in the software manual.</p> <p>4. If the trouble remains after checking the above, contact a designated service center.</p>

<b>☞ The controller does not communicate with the Host-PC.</b>																																																	
Cause	A defective cable is used, errors in wiring, an error in setting COMM ID of the controller, or damage on the communication port (either on PC side or on the controller side).																																																
Solution	<p>1. Please check the settings of the application S/W and the controller.</p> <ul style="list-style-type: none"> <li>- Check if the controller's COMM ID is listed on the application S/W.</li> <li>- Set the different COMM ID when two or more controllers are installed.</li> <li>- Check if the communication speed (9600bps default) is the same as the setting on the S/W.</li> <li>- Make sure that the PC's COM port is set correctly on the S/W.</li> <li>- The parameters at the S/W should be set as following:              Parity bit : NONE              Data bit : 8bit              Stop bit : 1bit</li> </ul> <p>2. Check the line connection for communication.</p> <table border="1" style="margin-left: 20px;"> <thead> <tr> <th colspan="2">RS232</th> <th colspan="3">RS422 (Single Drop)</th> </tr> </thead> <tbody> <tr> <td>505R</td> <td>PC</td> <td>505R</td> <td>RS422/232 Converter</td> <td>PC</td> </tr> <tr> <td>RX</td> <td>TX</td> <td>RX(-)</td> <td>TX(-)</td> <td rowspan="4" style="text-align: center;">The RS232 cable from the converter</td> </tr> <tr> <td>TX</td> <td>RX</td> <td>RX(+)</td> <td>TX(+)</td> </tr> <tr> <td>GND</td> <td>GND</td> <td>TX(-)</td> <td>RX(-)</td> </tr> <tr> <td></td> <td></td> <td>TX(+)</td> <td>RX(+)</td> </tr> </tbody> </table> <table border="1" style="margin-left: 20px;"> <thead> <tr> <th colspan="4">RS422(Multi Drop)</th> </tr> </thead> <tbody> <tr> <td>505R</td> <td>505R</td> <td>RS422/232 Converter</td> <td>PC</td> </tr> <tr> <td>RX(-)</td> <td>RX(-)</td> <td>TX(-)</td> <td rowspan="4" style="text-align: center;">The RS232 cable from the converter</td> </tr> <tr> <td>RX(+)</td> <td>RX(+)</td> <td>TX(+)</td> </tr> <tr> <td>TX(-)</td> <td>TX(-)</td> <td>RX(-)</td> </tr> <tr> <td>TX(+)</td> <td>TX(+)</td> <td>RX(+)</td> </tr> </tbody> </table> <p>3. In case of setting RS422 communication, we recommend to use line-end resistors of 120 Ohm between the RX (+) and RX (-) lines and between the TX(+) and TX(-) lines. Apply the same resistors to the converter RS422 lines. Consult a service center or an electric technician if you are not sure how to do it.</p> <p>4. When a multi-drop communication doesn't work, test one-by-one communication first.</p> <p>5. If the trouble remains after the procedure above, contact a designated service center.</p>	RS232		RS422 (Single Drop)			505R	PC	505R	RS422/232 Converter	PC	RX	TX	RX(-)	TX(-)	The RS232 cable from the converter	TX	RX	RX(+)	TX(+)	GND	GND	TX(-)	RX(-)			TX(+)	RX(+)	RS422(Multi Drop)				505R	505R	RS422/232 Converter	PC	RX(-)	RX(-)	TX(-)	The RS232 cable from the converter	RX(+)	RX(+)	TX(+)	TX(-)	TX(-)	RX(-)	TX(+)	TX(+)	RX(+)
RS232		RS422 (Single Drop)																																															
505R	PC	505R	RS422/232 Converter	PC																																													
RX	TX	RX(-)	TX(-)	The RS232 cable from the converter																																													
TX	RX	RX(+)	TX(+)																																														
GND	GND	TX(-)	RX(-)																																														
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505R	505R	RS422/232 Converter	PC																																														
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RX(+)	RX(+)	TX(+)																																															
TX(-)	TX(-)	RX(-)																																															
TX(+)	TX(+)	RX(+)																																															

## **14. 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 interference, 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.



## **15. Warranty and Service**

The following warranty and service information applies only to the United States of America and Republic of Korea. For the information in other countries, please contact the local distributor. To obtain in or out of warranty service, please prepay shipment and return the unit to the appropriate facility listed below.

### **U.S. BRANCH:**

**RF LOGICS Inc.**  
**370 Amapola Ave #106,**  
**Torrance, CA 90501**  
**Phone: (310) 782-8383**  
**Fax.: (310) 782-8298**  
**E-mail: rflogics@rflogics.com**  
**Web-site: www.rflogics.com**

### **HEADQUARTERS:**

**IDTECK CO., LTD. Service Center**  
**5F Ace Techno Tower Bldg.,**  
**684-1 Deungchon-dong, Gangseo-Gu,**  
**SEOUL 157-030, KOREA**  
**Phone: +82 (2) 2659-0055**  
**Fax.: +82 (2) 2659-0086**  
**E-mail: webmaster@idteck.com**  
**Web-site: www.idteck.com**

### **Technical Support (in korea)**

**E-mail : [webmaster@idteck.com](mailto:webmaster@idteck.com)**

#### **Hotline**

**+82-19-264-7550 (Customer support)**  
**+82-17-340-4170 (R&D)**

Please use the original container, or pack the unit(s) in a sturdy carton with sufficient packing to prevent damage, include the following information:

1. A proof-of-purchase indicating model number and date of purchase.
2. Bill-to address
3. Ship-to address
4. Number and description of units shipped.
5. Name and telephone number of person to contact.
6. Reason for return and description of the problem.

**NOTE:** Damage occurring during shipment is deemed the responsibility of the carrier, and claims should be made directly to the carrier.

**16. RMA Request Form**

● RMA REQUEST FORM : ORIGINAL



**IDTECK Co., Ltd.**



5F, Ace Techno Tower B/D, 684-1, Deungchon-Dong, Gangseo-Gu, Seoul, 157-030, Korea  
 TEL : +82-2-2659-0055, FAX ; +82-2-2659-0086, www.idteck.com

RMA REQUEST FORM					
<b>Send to:</b> <b>RMA Customer Service</b> 5F, Ace Techno Tower B/D 684-1, Deungchon-Dong, Gangseo-Gu Seoul, 157-030, Korea			<b>RMA No. &amp; Date :</b> <b>Original Invoice No. &amp; Date :</b>		
<b>Sales Person In Charge</b>			<b>Requested from :</b>		
<b>Shipping Port :</b>		<b>Departure Date :</b>			
<b>Air / Vessel :</b>					
NO	Model	Serial Number	Error Check Box by shipper		
1	Engineer Comment		RS 232 Com. <input type="checkbox"/>	Power <input type="checkbox"/>	Card Reading <input type="checkbox"/>
			Input/Output <input type="checkbox"/>	Keypad <input type="checkbox"/>	RS 422 Com <input type="checkbox"/>
			Others <input type="checkbox"/> :		
2	Engineer Comment		RS 232 Com. <input type="checkbox"/>	Power <input type="checkbox"/>	Card Reading <input type="checkbox"/>
			Input/Output <input type="checkbox"/>	Keypad <input type="checkbox"/>	RS 422 Com <input type="checkbox"/>
			Others <input type="checkbox"/> :		
3	Engineer Comment		RS 232 Com. <input type="checkbox"/>	Power <input type="checkbox"/>	Card Reading <input type="checkbox"/>
			Input/Output <input type="checkbox"/>	Keypad <input type="checkbox"/>	RS 422 Com <input type="checkbox"/>
			Others <input type="checkbox"/> :		
4	Engineer Comment		RS 232 Com. <input type="checkbox"/>	Power <input type="checkbox"/>	Card Reading <input type="checkbox"/>
			Input/Output <input type="checkbox"/>	Keypad <input type="checkbox"/>	RS 422 Com <input type="checkbox"/>
			Others <input type="checkbox"/> :		
5	Engineer Comment		RS 232 Com. <input type="checkbox"/>	Power <input type="checkbox"/>	Card Reading <input type="checkbox"/>
			Input/Output <input type="checkbox"/>	Keypad <input type="checkbox"/>	RS 422 Com <input type="checkbox"/>
			Others <input type="checkbox"/> :		
Manufacture's Verification					
Product Defective : User's Misuse : Communication Error :			Installation Error : Connection Error : Others :		
Packing Details					
Dimension(L:W:H) : Net & Gross Weight :			No. of Units: No. of Boxes:		
<b>Requested by:</b>  _____ Signature of Buyer			<b>Received by:</b>  _____ Signature of IDTECK		

● RMA REQUEST FORM : SAMPLE



**IDTECK Co., Ltd.**



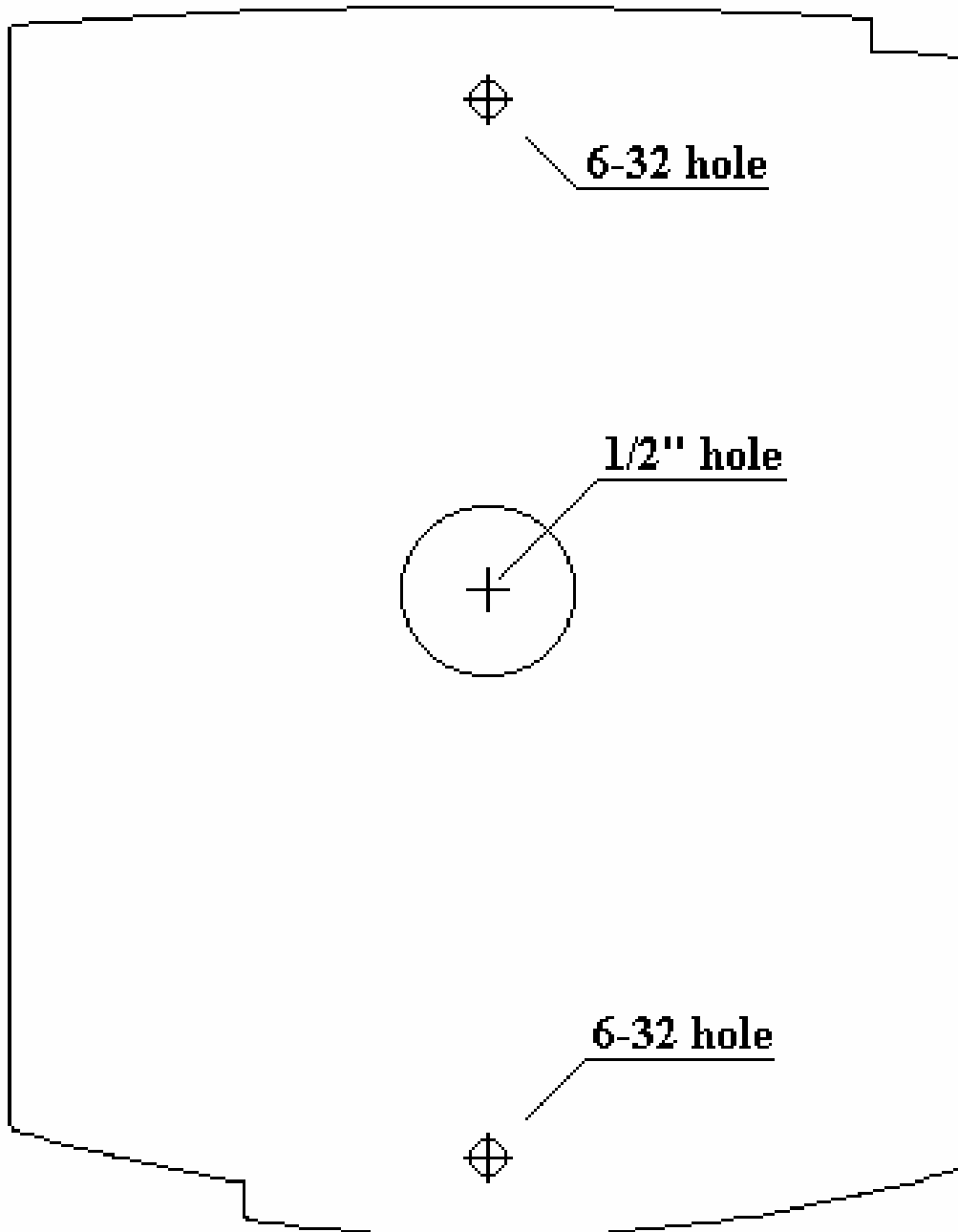
5F, Ace Techno Tower B/D, 684-1, Deungchon-Dong, Gangseo-Gu, Seoul, 157-030, Korea  
 TEL : +82-2-2659-0055, FAX ; +82-2-2659-0086, www.idteck.com

RMA REQUEST FORM					
<b>Send to:</b> <b>RMA Customer Service</b> 5F, Ace Techno Tower B/D 684-1, Deungchon-Dong, Gangseo-Gu Seoul, 157-030, Korea			<b>RMA No. &amp; Date :</b> We will send this No. , if needed. <b>Original Invoice No. &amp; Date :</b> 00-00-0-000 / 2005.10.01		
<b>Sales Person in Charge:</b> <b>Karina Kwak</b>			<b>Requested from :</b> Mr. XXXX YYYY ABC Company Address: Country:		
<b>Shipping Port :</b>		Narita	<b>Departure Date :</b>		2005, 10. 15
<b>Air / Vessel :</b>		Air			
NO	Model	Serial Number	Error Check Box by Shipper		
1	SR 10	XXXXXXXXXXXXXX	RS 232 Com. <input type="checkbox"/>	Power <input checked="" type="checkbox"/>	Card Reading <input checked="" type="checkbox"/>
	Engineer Comment	Write problem (must be detailed).	Input/Output <input type="checkbox"/>	Keypad <input type="checkbox"/>	RS 422 Com <input type="checkbox"/>
Others <input type="checkbox"/> :					
2	others		RS 232 Com. <input type="checkbox"/>	Power <input type="checkbox"/>	Card Reading <input type="checkbox"/>
	Engineer Comment		Input/Output <input type="checkbox"/>	Keypad <input type="checkbox"/>	RS 422 Com <input type="checkbox"/>
Others <input type="checkbox"/> :					
3			RS 232 Com. <input type="checkbox"/>	Power <input type="checkbox"/>	Card Reading <input type="checkbox"/>
	Engineer Comment		Input/Output <input type="checkbox"/>	Keypad <input type="checkbox"/>	RS 422 Com <input type="checkbox"/>
Others <input type="checkbox"/> :					
4			RS 232 Com. <input type="checkbox"/>	Power <input type="checkbox"/>	Card Reading <input type="checkbox"/>
	Engineer Comment		Input/Output <input type="checkbox"/>	Keypad <input type="checkbox"/>	RS 422 Com <input type="checkbox"/>
Others <input type="checkbox"/> :					
5			RS 232 Com. <input type="checkbox"/>	Power <input type="checkbox"/>	Card Reading <input type="checkbox"/>
	Engineer Comment		Input/Output <input type="checkbox"/>	Keypad <input type="checkbox"/>	RS 422 Com <input type="checkbox"/>
Others <input type="checkbox"/> :					
<b>Manufacturer's Verification</b>					
Product Defective :			Installation Error :		
User's Misuse :			Connection Error :		
Communication Error :			Others :		
<b>Packing Details</b>					
Dimension(L:W:H) :		30 * 25 * 80	No. of Units:		20
Net & Gross Weight :		150g	No. of Boxes:		2
<b>Requested by:</b> XXXX YYYY Signature of Buyer			<b>Received by:</b> _____ Signature of IDTECK		

# MEMO

# MEMO

**17. Template**





**The specification contained in this manual are subject to change without notice at any time**

5F, Ace Techno Tower B/D, 684-1, Deungchon-Dong,  
Gangseo-Gu, Seoul, 157-030, Korea  
Tel : (82) 2 2659-0055  
Fax : (82) 2 2659-0086  
E-mail : [webmaster@idteck.com](mailto:webmaster@idteck.com)