

OPERATING MANUAL

MOTOROLA SDC1000



MOTOROLA

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1. Important Safety Instructions

When using your door access controller, basing safety precautions should always be followed to reduce the risk of fire, electrical shock, and injury to persons including following:

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 a mild soap.
4. Do not use this product near water, for example near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a 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 supply to your home, consult your dealer or local power company.
6. Never push objects of any kind into this product though the cabinet slots as they may touch voltage points or short out parts that could result in a risk of 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, but take it to a qualified serviceman when some service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. incorrect reassembly can cause electric shock when the appliance is subsequently used.
8. Unplug this product from the wall outlet and refer to qualified service personnel under the following conditions:
 - a. When the power supply cord or plug is damaged or frayed.
 - b. If liquid has been spilled into the product
 - c. If the product has exposed to rain or water.
 - d. If the product does not operate normally by following the operating instructions.
Adjust only those controls, that are covered by the operating instructions. Improper adjustment of other controls in damage and will often require extensive work by a qualified technician to restore the to normal operation.
 - e. If the product exhibit a distinct change in performance.

2. General

SDC1000 is an intelligent one door Access Controller based on powerful 8 bit Microprocessor to meet a simple and cost-effective access control market requirement. User friendly device allows you to register max. 128 USER IDs and easy to add or delete USER RFIDs.

There are 5 inputs to connect EXIT Button, door contact, PIR sensor , Fire sensor and extra and you can program related output sources and activate timing from the front keypads. System will make alarm in case of number of times wrong entry and Temper switch opens and one TTL output can be connected to Auto-dialer (option) will make a call to the pre-defined phone numbers (max 4ch) and report the alarm to Police, Fire station and/or to your cellular phone by voice message. All event transaction report to the computer by RS232C communication.

The modern design and easy installation will provide you an accurate access control for single door and 3 LED indicators informs you all system operating at real time. SDC1000 will give you field proven reliability and cost-effective solution anywhere the access controls and high security is required.

3. Features

- One door Access Controller
- Powerful dual 8 bit Microprocessors
- Built-in 4" Proximity Reader
- 128 USER Access RFIDs including one Master RFID
- Independant 5 inputs and 4 outputs including 2 output Relays
- All I/Os and activating Times user front programmable
- Door Lock and Unlock function
- Setting for Safe/Secure mode
- Numbers of Try-out error Alarm
- RS232 communication port for remote control and events report
- 3 LEDs for system operation status
- Modern design and easy operation

4. Specification

.CPU	: Dual 8 bit Microprocessors
.Memory	: 8 KB Program memory 512 bytes Flash memory
.User PIN numbers	: 128 User RFIDs including one Master RFID
.Proximity Reader	: Built-in 4" Proximity reader
.Input/Output	: 5 Inputs max. rating at DC 12V/20mA : 2 Relay outputs : DC12V/2A : 1 chime bell output : 5V/150mA , : 1 TTL output : 5V/20mA
.Communication	: One RS232C port, 9600 Baud Rate,N,8,1
.Keypads	: 12 Numeric Keypads
.LED	: 3 LEDs(RED, GREEN, YELLOW)
.Power	: DC 12V/ 200mA
.Operating Environment	: 0°C to +60°C, 10% to 90% Humidity
.Reset	: Power ON Reset

5. Name of each part

SDC1000

Main Unit



6. Identifying supplied parts

Please unpack and check the contents of the box.



Main Unit
(1 EA)



Wall Mount
(1 EA)



O-Ring
(5 EA)



Instructions
(1 EA)

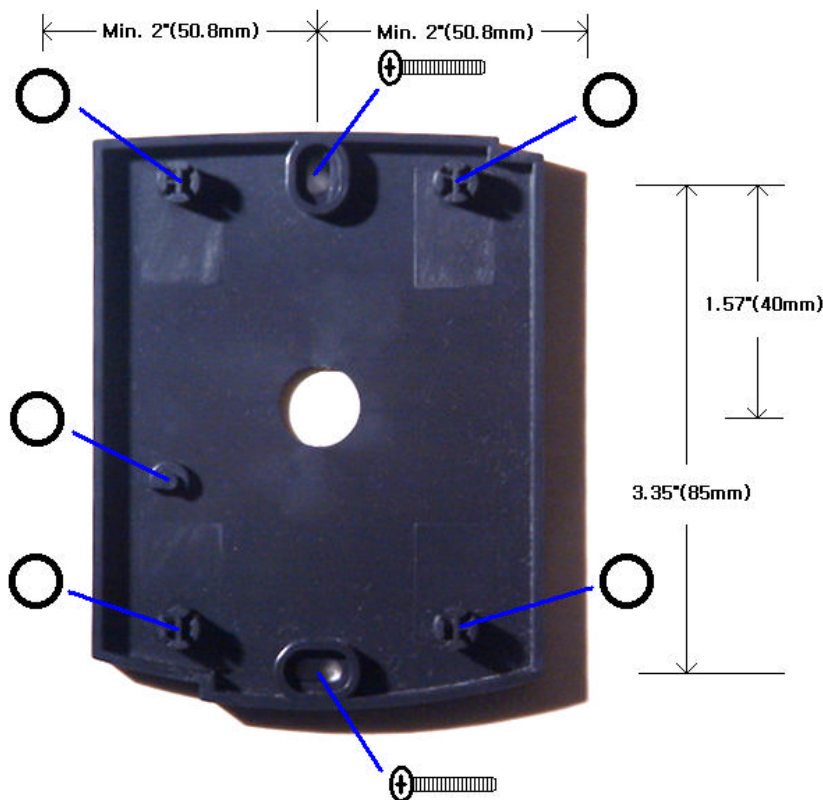
7. Installation of the Product

7-1. Drill two 6-32 holes and one 1/2" hole on the proper location of the wall.

(If the gang box is already installed on the wall then skip this step.)

7-2. Using 2 screws, install wall mount to the wall.

7-3. 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.



* CAUTIONS *

When the main unit is once fixed to wall mount, the locking pins will tighten the main unit therefore the operation test of the main unit should be required prior to fix the main unit to wall mount. If the main unit has to be disassembled from the wall mount, then you need another wall mount to be replaced as the locking pins of wall mount will be broken when the main unit detached from the wall mount.

8. Wire Color Table of the Main Unit**POWER**

Power(DC 12V)	+12V	Red wire, Red with White stripe
Power(DC 12V)	0V(GND)	Black wire, Black with White stripe

OUTPUT

Door RELAY(2A)	COM	Gray wire with Red stripe
Door RELAY(2A)	NC	Blue wire with White stripe
Door RELAY(2A)	NO	White wire with Red stripe
Alarm RELAY(2A)	COM	White wire
Alarm RELAY(2A)	NC	Purple wire with White stripe
Alarm RELAY(2A)	NO	Purple wire
TTL Output	TTL	Orange wire with White stripe
CHIME BELL Output	BELL	Brown wire with White stripe

INPUT

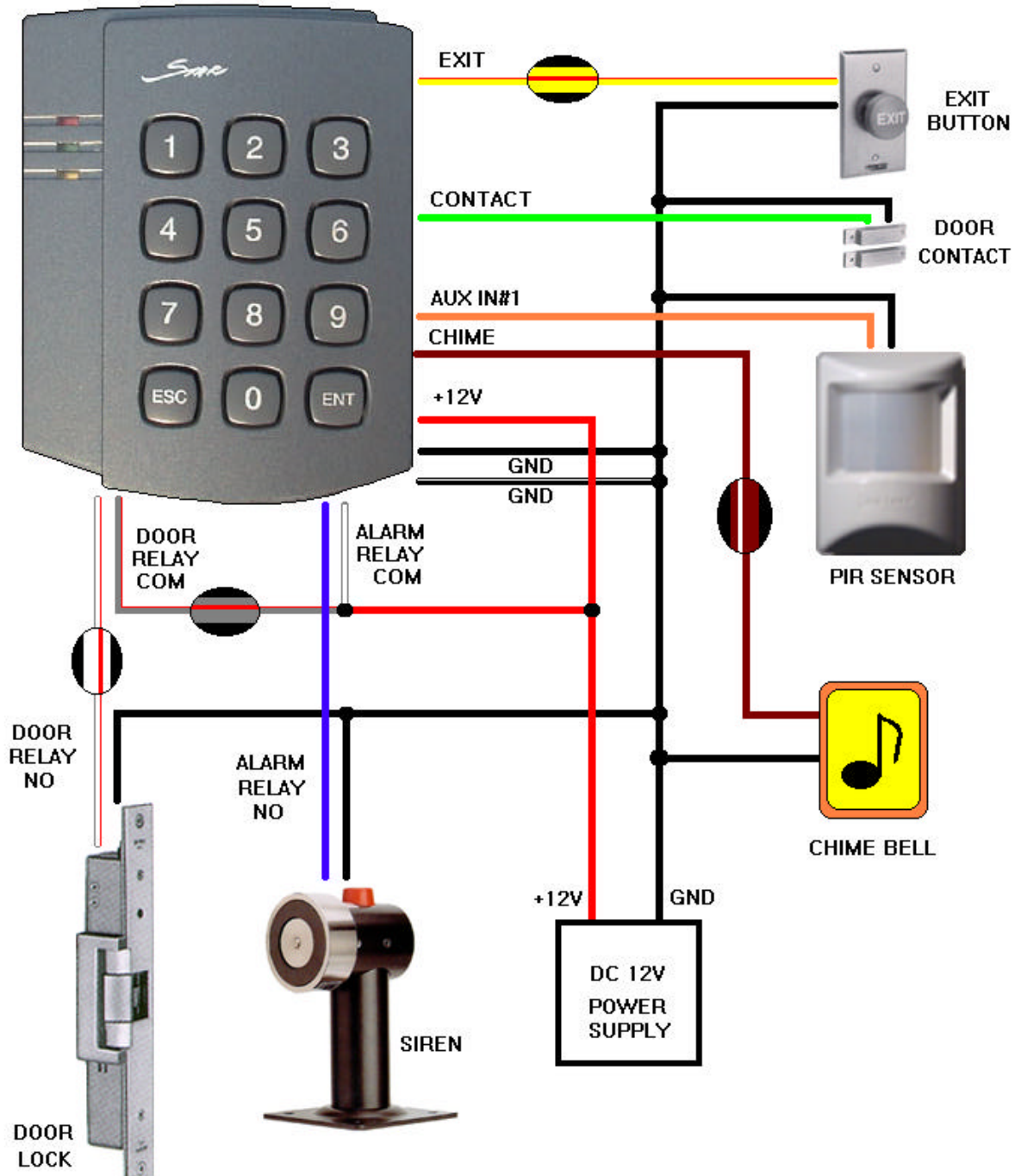
Exit Button	EXIT	Yellow wire with Red stripe
Door Sensor	CONTACT	Green wire
External Input #1	IN#1	Orange wire
External Input #2	IN#2	Green wire with White stripe
External Input #3	IN#3	Brown wire
Extra Reader Input	DATA0	Pink wire
Extra Reader Input	DATA1	Cyan wire

RS232C INTERFACE

RS232-TX	TXD	Grey wire
RS232-RX	RXD	Blue wire
RS232-GND	GND	Yellow wire

9. Wire connection for basic application

This connection can be changed for different applications.



9-1. Power Connection

Connect (+)wire of DC 12V power to Red wire and Red/White stripe wire and connect Power GND(-)wire of DC 12V to Black wire and Black/White stripe wire.

9-2. Door Lock connection**9-2-1 Connection of POWER FAIL SAFE: Door Lock**

- Connect Door RELAY(COM),Grey/Red stripe wire to DC +12V.
- Connect (+)wire of Door Lock to Door RELAY(NC),Blue/White stripe wire.
- Connect (-)wire of Door Lock to Power GND(-) wire.

9-2-2 Connection of POWER FAIL SECURE Door Lock

- Connect Door RELAY(COM),Grey/Red stripe wire to DC +12V.
- Connect (+)wire of Door Lock to Door RELAY(NO),White/Red stripe wire.
- Connect (-)wire of Door Lock to Power GND(-) wire.

9-3. Alarm Device connection

- Connect Alarm RELAY(COM),white wire to DC +12V.
- Connect (+)wire of Alarm Device to Alarm RELAY(NO),Purple wire.
- Connect (-)wire of Alarm Device to Power GND(-) wire.

9-4. Exit Button connection

- Connect one of the wire of Exit Button to Exit Button Input, Yellow/Red stripe wire.
- Connect the other wire of Exit Button to Power GND(-) wire.

(In case of using Normal Closing Contact for Exit Button then please make setting change of ACTIVE level of Exit Button in section 8-20)

9-5. Door Contact sensor connection

- Connect Door Contact sensor(COM) wire to Door Contact Input, Green wire.
- Connect Door Contact sensor(NO) wire to Power GND(-) wire.

(In case of using Normal Closing(NC) Contact for Door Contact sensor then please make setting change of ACTIVE level of Door Contact in section 8-21)

9-6. Auxiliary Input Device connection(Applied to AUX Input#1,#2,#3)

- Connect one wire of Auxiliary Input Device to AUX Input wire (Input#1 Orange, Input#2 Green/White stripe, Input#3 Brown wire).
- Connect the other wire of Auxiliary Input Device to Power GND(-) wire.

(In case of using Normal Closing(NC) Contact for Auxiliary Input Device then please make setting change of ACTIVE level of AUX Input in section 8-17 ~ 8-19)

9-7. Auto-dialer connection(Extra Purchase, If Necessary)

- Connect the input wire of Auto-dialer to TTL output, Orange/White stripe wire.
- Connect (+)wire of Auto-dialer to DC +12V.
- Connect (-)wire of Auto-dialer to Power GND(-) wire.
- Connect Telephone Line plug(RJ-14) to Auto-dialer.

*(In case of using Low ACTIVE for Auto-dialer then
please make setting change of ACTIVE level of TTL Output in section 8-22)*

9-8. RS232C Communication port Connection

9-pin connector(COM Port, female) is required to connect Serial communication (RS232C) between Main Unit to Personal Computer.

Purchase 9-pin Female Connector, then connect wires as follow.

- Connect RS232-TX, Grey wire of Main Unit to pin number 2 of 9-pin connector.
- Connect RS232-RX, Blue wire of Main Unit to pin number 3 of 9-pin connector.
- Connect RS232-GND, Yellow wire of Main Unit to pin number 5 of 9-pin connector.
- Plug in 9-pin connector to COM1 or COM2 Port of Personal Computer.
- Install and run SDC1000 Time & Attendance Software.

9-9. Chime Bell Unit connection(Extra Purchase, If Necessary)

- Connect Red(+) wire of Chime Bell Unit to Bell Output, Brown/White wire of Main Unit.
- Connect Black(-) wire of Chime Bell Unit to Power GND(-) wire.

9-10. Extra Proximity Reader connection(Extra Purchase, If Necessary)

- Connect (+)wire of Reader to DC +12V.
- Connect (-)wire of Reader to Power GND(-) wire.
- Connect Wiegand output DATA0 of Reader to Pink wire
- Connect Wiegand output DATA1 of Reader to Cyan wire.

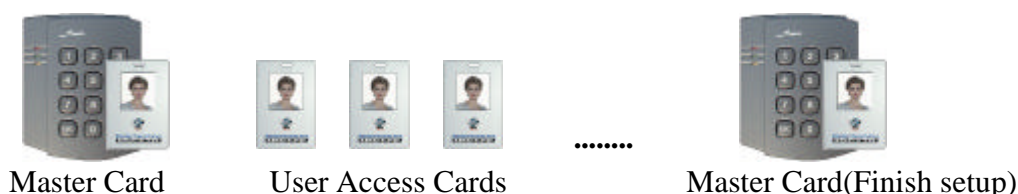
10. Initial Setup

Main Unit has Flash Memory to retain all setting values and when it delivered to customer there is no data in the memory therefore Initial Setup is required for the first use.

10-1. Registration of RF Cards for RF CARD ONLY MODE

* **This mode is only applicable when the extra proximity reader is connected.**

- Turn switch on DC12V Power Supply.
All 3 LEDs will be flashing with starting sound.
- Press 0 1 ENT from the keypad.(RF CARD ONLY MODE)
- Present RF Cards as follow to register Master Card and User Access Cards.

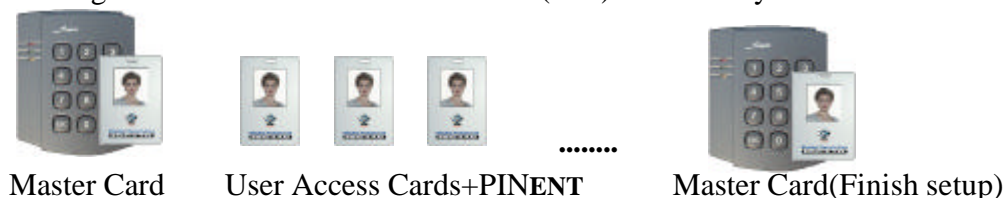


- First read card is registered as Master Card and the RF Cards followed to Master Card are registered as User Access Cards then present Master Card again to finish setup. (Please keep Master Card at the secure location for further setting changes.)
- Now, the Main Unit is entered to normal operation mode with default setting.

10-2. Registration of RF Cards with PIN for RF CARD + PIN MODE

* **This mode is only applicable when the extra proximity reader is connected.**

- Turn switch on DC12V Power Supply.
All 3 LEDs will be flashing with starting sound.
- Press 0 2 ENT from the keypad.(RF CARD + PIN MODE)
- Present RF Cards as follow to register Master Card and User Access Cards and type 4~6 digits Personal Identification Number(PIN) followed by each User Access Card.



- First read card is registered as Master Card and the RF Cards+PINENT followed to Master Card are registered as User Access Cards with PIN numbers then present Master Card again to finish setup.
(Please keep Master Card at the secure location for further setting changes.)

- Now, the Main Unit is entered to normal operation mode with default setting.

10-3. Registration of PIN ONLY MODE

- Turn switch on DC12V Power Supply.
All 3 LEDs will be flashing with starting sound.
- Press 0 3 ENT from the keypad.(PIN ONLY MODE)
- Enter a 8 digits PIN number + ENT to register Master PIN number then type 4~6 digits PIN number + ENT to register User Access PIN numbers then type 8 digits Master PIN number to finish setup.

8digits PINENT	4~6digits PINENT	...	8digits Master PINENT
Master PIN	User Access PIN	...	Master PIN(Finish setup)

- First 8 digits PIN number is registered as Master PIN and 4~6 digits PIN followed to Master PIN are registered as User Access PIN numbers then type Master PIN again to finish setup.
(Please write and remember Master PIN number for further setting changes.)
- Now, the Main Unit is entered to normal operation mode with default setting.

10-4. Default Setting Values

After the Initial Setup, the Main Unit stores its default setting values as follows and run normal operation mode. If you want to change the setting values, add or delete USER Access Cards(or PIN) then please refer to "Setting Changes" in section 8.

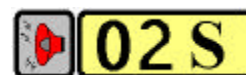
• When User Access Card(or PIN) is granted

- Door RELAY activates for 3sec.
- Green LED lights on for 3sec.



• When User Access Card(or PIN) is denied

- Alarm RELAY activates for 2sec.
- Red LED lights on for 2sec.



11. Operation

11-1. Normal Operation Mode(Safe Mode)



When the Main Unit is running in normal operation mode, Yellow LED is flashing every second.

11-2. Open the Door



Registered card(or PIN)

User Access Card(or PIN) is granted, Door opens for 3 seconds with "do-mi-sol-do" melody.



11-3. Exit(Open the Door)



Exit Button

To exit, press Exit Button and Door opens for 3 seconds.



11-4. Alarm by Unregistered Card(or PIN)

User Access Card(or PIN) is not registered and access is denied, then Alarm RELAY activates for 2 sec. with "sol-do-sol-do" melody.



Unregistered card(or PIN)



(If you do not want to activate Alarm, then please change settings in section 8-22.)

11-5. Secure Mode

Last exit person can change the mode from Safe Mode to Secure Mode by pressing.

Secure Code from the keypad so that the Alarm will generate by AUX Inputs.



-> Change to Secure Mode.

It will canceled automatically when the registered card(or PIN) is present.

11-6. DURESS Alarm

In case of opening the door by Duress condition, press Duress PassWordENT and open the door as usual then Duress Alarm(TTL Output) will activate.

11-7. Chime Bell operation


When the guest presses ESC(Bell) Button from the keypad, Chime Bell melody is activating for 5 seconds.

12. Setting Changes

To change previous setting values, you need Master Card(or PIN) to get in to Setting Change mode. First present Master Card(or press Master PIN) and enter 2-digit command code.



Present Master Card(or PIN) and press 2digit command code.

+ Command code + 

Command Change setting values

- | | |
|----|--|
| 11 | Add User Access Cards(RF CARD ONLY MODE) |
| 12 | Add User Access Cards and PIN(RF CARD + PIN MODE) |
| 13 | Add User Access PIN numbers(PIN ONLY MODE) |
| 14 | Delete User Access Cards(or PIN) |
| 21 | Change Door open time when User Access Card(or PIN) is granted |
| 22 | Change Alarm time when User Access Card(or PIN) is denied |
| 23 | Change Alarm time when Try Our error detected |
| 24 | Change Alarm time when Door Contact error detected |
| 25 | Change Alarm time when AUX#1 Input detected |
| 26 | Change Alarm time when AUX#2 Input detected |
| 27 | Change Alarm time when AUX#3 Input detected |
| 28 | Change Alarm time when magnet detected |
| 29 | Register 2 digits Duress Alarm Code |
| 30 | Change Alarm time when Duress Alarm detected |
| 31 | Test Door open time set by command "21" |
| 32 | Test Alarm time set by command "22" |
| 33 | Test Alarm time set by command "23" |
| 34 | Test Alarm time set by command "24" |
| 35 | Test Alarm time set by command "25" |
| 36 | Test Alarm time set by command "26" |
| 37 | Test Alarm time set by command "27" |
| 39 | Change Chime Bell activating time |

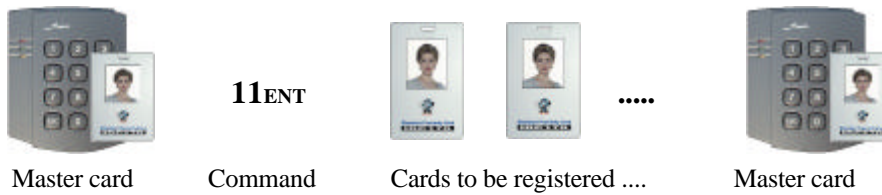
Command Change setting values

41	Unconditional Door Open
42	Unconditional Door Close
43	Enable QUICK ACCESS MODE(Operate only PIN MODE)
44	Disable QUICK ACCESS MODE(Operate only PIN MODE)
51	Disable Melody sound
52	Enable Melody sound
60	Change keypad lock time when Try Out error detected
61	Detect AUX#1 Input from 'L' to 'H'
62	Detect AUX#1 Input from 'H' to 'L'
63	Detect AUX#2 Input from 'L' to 'H'
64	Detect AUX#2 Input from 'H' to 'L'
65	Detect AUX#3 Input from 'L' to 'H'
66	Detect AUX#3 Input from 'H' to 'L'
67	Detect Exit Button Input from 'L' to 'H'
68	Detect Exit Button Input from 'H' to 'L'
69	Detect Door Contact sensor Input from 'L' to 'H'
70	Detect Door Contact sensor Input from 'H' to 'L'
71	Activate TTL output to 'H'
72	Activate TTL output to 'L'
77	Enable Chime Bell Output
78	Disable Chime Bell Output
80	Set delay time to activate SECURE MODE
81	Set watch-dog time for Door Contact sensor
82	Set number of times of Try-Out
83	Set input limit time from the keypad
84	Set Temper Alarm port
88	Enable Temper Alarm
89	Disable temper Alarm
99	Initialize and erase all setup data

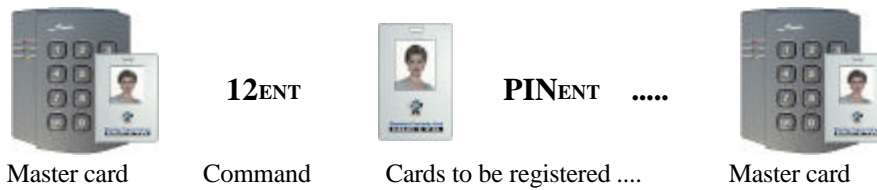
SDC1000

SINGLE DOOR ACCESS CONTROLLER

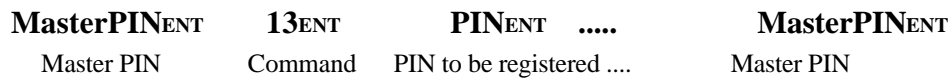
12-11. Add User Access Cards(RF CARD ONLY MODE)



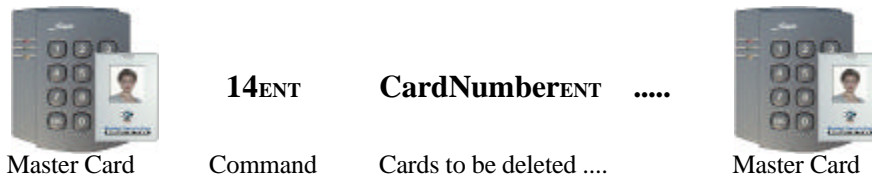
12-12. Add User Access Cards(RF CARD + PIN MODE)



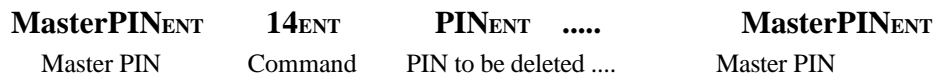
12-13. Add User Access PIN(PIN ONLY MODE)



12-14.1. Delete User Access Cards(RF CARD ONLY MODE, RF CARD+PIN MODE)



12-14.2. Delete User Access PIN(PIN ONLY MODE)



<Table 1> Settings for command 21~28

Symbol	Setting Values	Examples/Remarks
Output Mode OM	(You must add value "ç" and "ğ" <u>Setting value for activating time</u> "ç" Activate Time Value Activate only Secure Mode : 00 Activate all the time : 50	EX1) Activate Door Relay all the time Door RELAY 01 <u>All the time 50</u> OM = 51
	<u>Setting Value for activate Output Port</u> "ğ" Activate Output Port Value Activate only Door Relay : 01 Activate only Alarm Relay : 02 Activate only TTL Output : 04 Activate Door Relay & TTL : 05 Activate Alarm Relay & TTL : 06	EX2) Activate Alarm Relay and TTL during the Secure mode Alarm+TTL 06 <u>Secure Mode 00</u> OM = 06
tt	tt is the activating time value(seconds) from 01sec. to 99sec.	tt value 00sec. means no operation.
PW	PW is the 2 digits PassWord for Duress Alarm.	Do not use '77' as it Is used for Secure Mode
mm	mm is activating time value(minutes) from 01min. to 99min.	mm value 00min. means no operation.

12-21. Change Door open time when User Access Card(or PIN) is granted



Master card or
MasterPINENT

(Please refer to Table 1 for tt)

21 _{ENT}	tt _{ENT}	tt _{ENT}
Command	Door time	TTL time

12-22. Change Alarm time when User Access Card(or PIN) is denied



Master card or
MasterPINENT

(Please refer to Table 1 for OM, tt)

22 _{ENT}	OM _{ENT}	tt _{ENT}	tt _{ENT}	tt _{ENT}
Command	Output Mode	Door time	Alarm Time	TTL time

12-23. Change Alarm time when Try Our error detected



Master card or
MasterPINENT

(Please refer to Table 1 for OM, tt)

23 _{ENT}	OM _{ENT}	tt _{ENT}	tt _{ENT}	tt _{ENT}
Command	Output Mode	Door Time	Alarm Time	TTL Time

12-24. Change Alarm time when Door Contact error detected



Master card or
MasterPINENT

(Please refer to Table 1 for OM, tt)

24 _{ENT}	OM _{ENT}	tt _{ENT}	tt _{ENT}	tt _{ENT}
Command	Output Mode	Door Time	Alarm Time	TTL Time

12-25. Change Alarm time when AUX#1 Input detected

12-26. Change Alarm time when AUX#2 Input detected

12-27. Change Alarm time when AUX#3 Input detected



Master card or
MasterPINENT

(Please refer to Table 1 for OM, tt)

25 _{ENT}	OM _{ENT}	tt _{ENT}	tt _{ENT}	tt _{ENT}
26 _{ENT}	OM _{ENT}	tt _{ENT}	tt _{ENT}	tt _{ENT}
27 _{ENT}	OM _{ENT}	tt _{ENT}	tt _{ENT}	tt _{ENT}
Command	Output Mode	Door Time	Alarm Time	TTL Time

12-28. Change Alarm time when magnet detected



Master card or
MasterPINENT

(Please refer to Table 1 for OM, tt)

28 _{ENT}	OM _{ENT}	tt _{ENT}	tt _{ENT}	tt _{ENT}
Command	Output Mode	Door Time	Alarm Time	TTL Time

12-29. Register 2 digits Duress Alarm PassWord



Master card or
MasterPINENT

(Please refer to Table 1 for PW)

29 _{ENT}	PW
Command	PassWord

* '00' is registered as default PassWord.

12-30. Change Alarm time when Duress Alarm detected



Master card or
MasterPINENT

(Please refer to Table 1 for OM, tt)

30 _{ENT}	OM _{ENT}	tt _{ENT}	tt _{ENT}	tt _{ENT}
Command	Output Mode	Door Time	Alarm Time	TTL Time

12-31. Test Door open time set by command "21"

12-32. Test Alarm time set by command "22"

12-33. Test Alarm time set by command "23"

12-34. Test Alarm time set by command "24"

12-35. Test Alarm time set by command "25"

12-36. Test Alarm time set by command "26"

12-37. Test Alarm time set by command "27"

Outputs set by command will be tested.



Master card or
MasterPINENT

31~37 _{ENT}
Command

12-39. Change Chime Bell activating time



(Please refer to Table 1 for tt)

Master card or MasterPINENT	39 _{ENT}	tt _{ENT}
	Command	Chime Bell Time

12-41. Unconditional Door Open

Master card or MasterPINENT	41 _{ENT}
--------------------------------	--------------------------

12-42. Unconditional Door Close

Master card or MasterPINENT	42 _{ENT}
--------------------------------	--------------------------

12-43. Enable QUICK ACCESS MODE

When QUICK ACCESS MODE is enabled in PIN ONLY MODE,
Door will open just press ENT key.

Master card or MasterPINENT	43 _{ENT}
--------------------------------	--------------------------

12-44. Disable QUICK ACCESS MODE

Master card or MasterPINENT	44 _{ENT}
--------------------------------	--------------------------

12-51. Disable Melody sound

Master card or MasterPINENT	51 _{ENT}
--------------------------------	--------------------------

12-52. Enable Melody sound

Master card or MasterPINENT	52 _{ENT}
--------------------------------	--------------------------

12-60. Change keypad lock time when Try Out error detected

(Please refer to Table 1 for tt)



Master card or MasterPINENT	60 _{ENT}	tt _{ENT}
	Command	Keypad Lock Time

12-61. Detect AUX#1 Input from 'L' to 'H'

AUX#1 input is detected on the raising edge of AUX#1 input

Master card or **61**ENT
MasterPINENT

12-62. Detect AUX#1 Input from 'H' to 'L'

AUX#1 input is detected on the falling edge of AUX#1 input

Master card or **62**ENT
MasterPINENT

12-63. Detect AUX#2 Input from 'L' to 'H'

AUX#2 input is detected on the raising edge of AUX#2 input

Master card or **63**ENT
MasterPINENT

12-64. Detect AUX#2 Input from 'H' to 'L'

AUX#2 input is detected on the falling edge of AUX#2 input

Master card or **64**ENT
MasterPINENT

12-65. Detect AUX#3 Input from 'L' to 'H'

AUX#3 input is detected on the raising edge of AUX#3 input

Master card or **65**ENT
MasterPINENT

12-66. Detect AUX#3 Input from 'H' to 'L'

AUX#3 input is detected on the falling edge of AUX#3 input

Master card or **66**ENT
MasterPINENT

12-67. Detect Exit Button Input from 'L' to 'H'

Exit Button input is detected on the raising edge of Exit Button input

Master card or **67**ENT
MasterPINENT

12-68. Detect Exit Button Input from 'H' to 'L'

Exit Button input is detected on the falling edge of Exit Button input

Master card or **68**ENT
MasterPINENT

12-69. Detect Door Contact sensor Input from 'L' to 'H'

Door Contact input is detected on the raising edge of Door Contact input

Master card or **69**ENT
MasterPINENT

12-70. Detect Door Contact sensor Input from 'H' to 'L'

Door Contact input is detected on the falling edge of Door Contact input

Master card or **70**_{ENT}
MasterPINENT

12-71. Activate TTL output to 'H'

TTL output changes the state from logic '0' to logic '1' when it activates.

Master card or **71**_{ENT}
MasterPINENT

12-72. Activate TTL output to 'L'

TTL output changes the state from logic '1' to logic '0' when it activates.

Master card or **72**_{ENT}
MasterPINENT

12-77. Enable Chime Bell Output

Master card or **77**_{ENT}
MasterPINENT

12-78. Disable Chime Bell Output

Master card or **78**_{ENT}
MasterPINENT

12-80. Set delay time to activate SECURE MODE

(Please refer to Table 1 for **mm**)



Master card or
MasterPINENT

80_{ENT} **mm**_{ENT}
Command Delay Time

12-81. Set watch-dog time for Door Contact sensor

(Please refer to Table 1 for **tt**)



Master card or
MasterPINENT

81_{ENT} **tt**_{ENT}
Command Watch-dog Time

12-82. Set number of times of Try-Out



Master card or
MasterPINENT

NN is the Try-out numbers from 00 to 99 times.

82_{ENT} **NN**_{ENT}
Command Try-out Numbers

12-83. Set input limit time from the keypad



Master card or
MasterPINENT

(Please refer to Table 1 for **tt** from 10 ~ 99)

83_{ENT} **tt**_{ENT}
Command Input Limit Time

12-84. Set Temper Alarm port



Master card or
MasterPINENT

(Please refer to Table 1 for OM)

84_{ENT} **OM**_{ENT}
Command Alarm Port

12-88. Enable Temper Alarm

Master card or **88**_{ENT}
MasterPINENT

12-89. Disable temper Alarm

Master card or **89**_{ENT}
MasterPINENT

12-99. Initialize and erase all setup data

Please use this command when you really want to erase all data and start the unit from the begining.

Master card or **99**_{ENT}
MasterPINENT

13. FCC REGISTRATION INFORMATION

FCC REQUIREMENTS PART 15

Caution: Any changes or modifications in construction of this device which are not expressly approved by the responsible 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 provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

14. 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 your local distributor.

To obtain in or out of warranty service, please prepay shipment and return the unit to the appropriate facility listed below.

IN THE UNITED STATES

RF LOGICS Inc. Service Center
3026 Scott Blvd.,
SANTA CLARA, CA95054 USA
Tel.: (408) 980-0001
Fax.: (408) 980-8060
E-mail: rflogics@rflogics.com
Web-site: www.rflogics.com

OUTSIDE OF THE UNITED STATES

ID TECK CO., LTD. Service Center
5F Ace Techno Tower Bldg.,
684-1 Deungchon-dong, Gangsuh-gu,
SEOUL 157-030, KOREA
Tel.: +82 (2) 659-0055
Fax.: +82 (2) 659-0086
E-mail: webmaster@idteck.com
Web-site: www.idteck.com

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.