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Installation

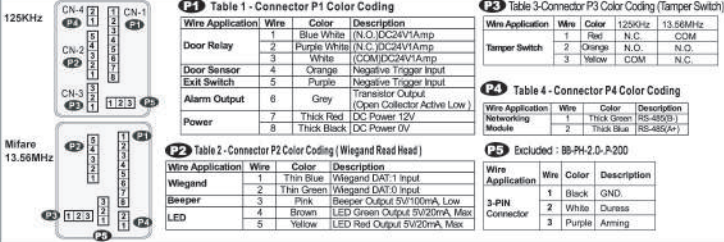
Steps

- Using a screwdriver, screw the mounting plate to the wall.
- Pull cable ends through the access hole in the mounting plate.
- Attach body to the mounting plate and install screw (supplied) into the hole at the bottom with the Allen Key (supplied).
- Apply power. Green and red LED will light up at the same time, and a beep sound.

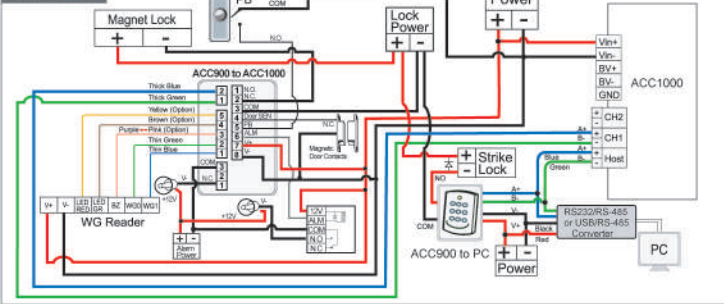
Notice

- Tubing**
The communication wires and power line should not be housed in the same electrical conduit or tubing. They should always be installed in separate tubes.
- Cable selection**
Use AWG 22-24 "Shielded Twisted Pair" to avoid star wiring.
- Power supply**
Do Not connect the reader and lock to the same power supply. While the lock activating will cause the reader's power unstable and might affect the reader function. The standard connection of power supply is the door relay and the lock use the same power supply; the reader use independent power supply.

Installation Diagram



Diagram



Command List

Command	Code	Response
Entering programming mode	*123456# or *Master Code# (if already changed)	M4/M6/M8
Exiting programming mode	*#	M4/M6/M8
Exiting programming mode and enabling arming status	**#	M4/M6/M8
Node ID setting	00*NNN# (Node ID: 001-254)	M4/M6/M8
Door relay time setting	02*TTT# (Door relay time: 000=Normal open)	M4/M6/M8
	(Door relay time: 001-600=1-600 sec.)	
	(Door relay time: 601-609=0.1-0.9 sec.)	
Alarm relay time setting	03*TTT# (Door relay time: 000=Normal open)	M4/M6/M8
	(Door relay time: 001-600=1-600 sec.)	
Control mode setting	04*N# (Mode: 4/5/6)	M4/M6/M8
Arming delay time setting	05*TTT# (Arming delay time: 001-600=1-600 sec.)	M4/M6/M8
Alarm delay time setting	06*TTT# (Arming delay time: 001-600=1-600 sec.)	M4/M6/M8
Master card setting	07*SSSS#EEEE# (Input a user or a batch of user as the master card: 00000-01023)	M4/M6
	SSSS=Starting user address · EEEEE=Ending user address	
Auto-open zone setting	08*N*HHMMHMM#111111#	M4/M6/M8
	N: 2 sets of auto-open zone (0: 1st set; 1: 2nd set)	
	HHMMHMM=Starting time to ending time (i.e.: 08301200=08:30 to 12:00)	
	111111: 7 days of week (Sun/Mon/Tue/Wed/Thu/Fri/Sat) (0: disable; 1: enable)	
Master code setting	09*PPPPPPRRRRRR# PPPPPP=New master code	M4/M6/M8
	RRRRRR=Repeat the new master code	
Suspend or delete tag	Suspend: 10*SSSS#EEEE#	M4/M6/M8
	Delete: 10*SSSS#EEEE#	
	SSSS=Starting user address · EEEEE=Ending user address	
Recover tag	11*SSSS#EEEE# recover the paused tag	M4/M6
Setting up a batch of user to access by card only (M6 only)	SSSS=Starting user address · EEEEE=Ending user address	M6
	Delete: 10*SSSS#EEEE#	
Setting up the PWD/PIN (Access mode: Card or PIN)	12*UUUU#PPPP# UUUUU= User address	M4/M6
Setting up the PWD/PIN (Access mode: Card and PIN)	13*UUUU#PPPP# UUUUU= User address	M4/M6
Arming output time setting	14*TTT# (Arming output time: 001-250=1-250 sec.)	M4/M6/M8
M4/M8: Duress code setting	15*PPPP# PPPP=4-digit individual PWD	M4/M6/M8
M6: Public PIN setting (Card or PIN)	P.S. Duress code will be unavailable and become a public PIN at access mode "Card or PIN" of M6	M4/M6/M8
Card number modification	16*UUUU#SSSS#CCCC# UUUUU= User address · SSSSS=5-digit site code	M4/M6
M4/M8: Arming PWD setting	17*PPPP# PPPP=4-digit individual PWD (default value=1234; disable Arming PWD=0000)	M4/M6/M8
M6: Public PIN setting (Card and PIN)	P.S. Arming PWD code will be unavailable and become a public PIN at access mode "Card PIN" and of M6	M4/M6/M8
Door close time	18*TTT# (Door close time: 001-600=1-600 sec.; default value: 15 sec.)	M4/M6/M8
Adding tag	19*UUUU#QQQQ# UUUUU=User address · QQQQ=Pieces of card	M4/M6
Factory setting-1(Function default value)	20*DDD# (Please refer to function default value for details)	M4/M6/M8
Lift control setting: multi-doors	21*UUUU#S#FFFFFFF# UUUUU=User address	M4/M6
	S: 4 sets of lift control (Input: 0-3) · FFFFFFFF: 8 floors/stop setting (0=Disable, 1=Enable)	
Add/Delete tag by RF (M6 only)	22*N#N=0>Delete tag · N=1>Add tag	M6
Relay time of lift controller setting	23*NNN#TTT# N=Node ID of lift controller · TTT= relay time: 000-600=1-600 sec.	M4/M6
Factory setting-2 (Function default value)	24*DDD# (Please refer to function default value for details)	M4/M6/M8
Real time clock setting (Stand-Alone)	25*YYMMDDHHmmSS# YYMMDDHHmmSS: Year/Month/Day/Hour/Min./Sec.	M4/M6/M8
Anti-pass-back (Enable user)	26*SSSS#EEEE#N# SSSSS=Starting user address · EEEEE=Ending user address	M4/M6
	N=0=Disable; N=1=Enable; N=2=Initial	
Lift control setting: single door	27*UUUU#FFF# UUUUU=User Address · FF=Floor number (01-32 floor/stop)	M4/M6/M8
Force open alarm setting	28*NNN# NNN=000=Disable · NNN=128=Enable	M4/M6
Delete all tag	29*29#	M4/M6/M8



ECL-ACC900

Networking & Stand-alone Controller
Networking Reader



ECL-ACC900



Function Default Value

Table with columns: Function, Option 0, Option 1, Value, Application. Rows include Time Attendance, Auto Re-lock, Auto Open, Exit by Push Button, Master Reader of Network, Enter/Exit Reader, Anti-pass-back.

Table with columns: Function, Option 0, Option 1, Value, Application. Rows include Auto-open door without presenting card, Alarm Output/Lift Control, Stop Alarm by..., Door bell.

Table with columns: Function, Option 0, Option 1, Value, Application. Row: Force Open Alarm Output.

Remarks: *: default value. Option 0= none value. Option 1= 1 x each value (i.e. DDD value of Enable "Auto Open" + "Exit by Push Button + "Anti-pass-back" =004+016+128=148; As a result of that, the command will be [20*148].

Programming

A - Entering and Exiting Programming Mode

Table showing Entering and Exiting programming modes with Master Code and *# keys.

B - Initial Setup

1. Restoring Factory Settings: Access programming mode [123456#] or [Master Code#]... [29*29#] -> Changing the Master Code to default value: 123456 -> *# (done)

2. Changing the Master Code

Access programming mode [123456#] or [Master Code#]... [09*PPPPPPRRRRRR#] (input the 6-digit new master code twice)

3. Changing the Node ID of Reader

Access programming mode [123456#] or [Master Code#]... [00*NNNN#] (Node ID: 001-254)

C - Setting up the control mode (M4/M6/M8)

Access programming mode [123456#] or [Master Code#] (if already changed) -> [04*N#] (Input: 40#)

Table with columns: Application, Mode (M4, M6, M8), Support, User Capacity, Access Mode, Auto-show, Work Status, Event Capacity, 120 Holidays, Duesess, Time Zone, Lift Control, Anti-pass-Back.

D - Setting up the password

1. Individual PWD (M4/M8)

a. Card or PIN: Access programming mode [123456#] or [Master Code#]... [12*UUUUU*PPPP#] (i.e. User address: 0001 and PWD: 1234, input 12*0001*1234#)

b. PIN only

Access programming mode [123456#] or [Master Code#]... [13*UUUUU*PPPP#] (i.e. User address: 0001 and PWD: 1234, input 13*0001*1234#)

2. Public PWD (M6)

a. Card and PIN: Access programming mode [123456#] or [Master Code#]... [17*PPPP#] (input 4-digit PWD, default value: 1234)

b. PIN only

Access programming mode [123456#] or [Master Code#]... [15*PPPP#] (input 4-digit PWD)

E - Anti-pass-back

Usually, anti-pass-back is commonly applied to parking areas in order to prevent from multi-entry with one card at a time, or somewhere wants to monitor not only the access but also exit condition.

Device enable

Access programming mode -> [20*128#] please refer to "20*DDD#" function default value for additional function value

Card user enable

Access programming mode -> [26*SSSS*EEEE*1#] (i.e. User address from 0001 to 0005 enable the anti-pass-back function: [26*0001*0005*1#])

F - Auto Open Zone

Door will keep opening after first man flashing card. ACC-900 support only two sets of auto-open zone by device setting, but auto-open zone can extend up to 63 sets by connected to ACC-1000.

Enable/Disable auto open zone

Access programming mode [20*004#] please refer to "20*DDD#" function default value for additional function value

Setting up open time

Access programming mode -> [08*N*H*MM*H*MM*111111#] (N: 2 sets of auto-open zone (N=0=1st set, N=1=2nd set), H*MM*H*MM=starting time to ending time (i.e.: 08:30:12:00-08:30 to 12:00))



Adding and Deleting Tag

Flowcharts for adding and deleting tags. Includes sections for Single Tag, A Batch of Tags, and Deleting Tag (M4/M8) with detailed steps for programming modes and tag information.

M6

Flowcharts for adding and deleting tags in M6 mode, including steps for adding a tag and deleting a tag.

G - Setting up the alarm

Flowcharts for setting up the alarm, including conditions for arming and application of alarm settings.



Table with columns: Function, Command, Description. Rows include Door Relay TM, Door Close TM, Alarm Relay TM, Arming Delay TM, Force Open.

The ECL-ACC900 can be operated using PC Software. Contact your supplier for details.