



ECL-ACC900

Networking & Stand-alone Controller
Networking Reader



ECL-ACC900



Contents



Installation

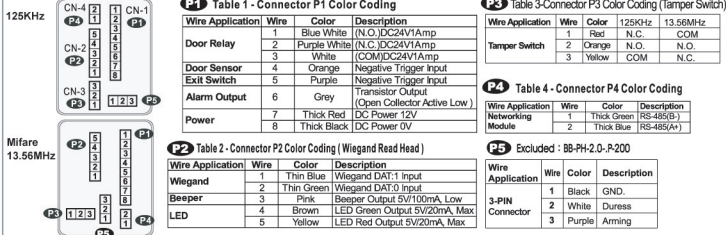
Steps

- 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.

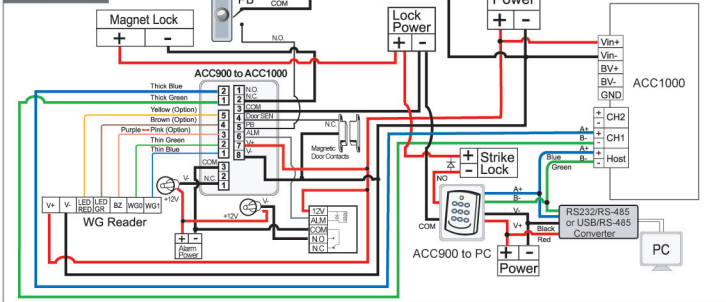
Notice

- 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

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) (Door relay time: 001-600=1-600 sec.) (Door relay time: 601-609=0.1-0.9 sec.)	M4/M6/M8
Alarm relay time setting	[03*TTT#] (Door relay time: 000=Normal open) (Door relay time: 001-600=1-600 sec.)	M4/M6/M8
Control mode setting	[04*N#] Mode: 4/6/8	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) SSSS=Starting user address · EEEEE=Ending user address	M4/M8
Auto-open zone setting	[08*N*HHMMHMM*111111#] 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)	M4/M6/M8
Master code setting	[09*PPPPPPRRRRRR#] P P P P P P = New master code RRRRRR=Repeat the new master code	M4/M6/M8
Suspend or delete tag	Suspend: [*10*SSSS*EEEE#] Delete: [*10*SSSS9EEEE#] SSSS=Starting user address · EEEEE=Ending user address	M4/M6/M8
Recover tag	[11*SSSS*EEEE#] recover the paused tag SSSS=Starting user address · EEEEE=Ending user address	M4/M8
Setting up a batch of user to access by card only (M6 only)	[11*SSSS*EEEE#] SSSS=Starting user address · EEEEE=Ending user address	M6
Setting up the PWD/PIN (Access mode: Card or PIN)	[12*UUUU*PPPP#] UUUUU= User address PPPP=4-digit individual PWD	M4/M8
Setting up the PWD/PIN (Access mode: Card and PIN)	[13*UUUU*PPPP#] UUUUU= User address PPPP=4-digit individual PWD	M4/M8
Arming output time setting	[14*TTT#] (Arming output time: 001-250=1-250 sec.)	M4/M6/M8
M4/M8: Duress code setting	[15*PPPP#] P P P P = 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*SSSSCCCC#] UUUUU= User address · SSSS=5-digit site code CCCC=5-digit card code	M4/M8
M4/M8: Arming PWD setting	[17*PPPP#] P P P P = 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/M8
Factory setting-1(Function default value)	[20*DDDD#] (Please refer to function default value for details)	M4/M6/M8
Lift control setting: multi-doors	[21*UUUU*S*FFFFFFF#] UUUUU=User address S: 4 sets of lift control (Input: 0-3) · FFFFFFFF: 8 floors/stop setting (0=Disable, 1=Enable)	M4/M8
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/M8
Factory setting-2 (Function default value)	[24*DDDD#] (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#] SSSS=Starting user address · EEEEE=Ending user address N=0=Disable; N=1=Enable; N=2=Initial	M4/M8
Lift control setting: single door	[27*UUUU*FF#] 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/M8
Delete all tag	[29*29#]	M4/M6/M8

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Function Default Value

A - 20'DDD#					B - 24'DDD#				
Function	0	1	Value	Application	Function	0	1	Value	Application
Time Attendance	Yes*	No	001	Networking	Auto-open door without presenting card at auto open zone	Disable*	Enable	001	Networking / Stand-Alone
Auto Re-lock	Disable*	Enable	002	Networking/Stand-Alone	Alarm Output/Lift Control	Alarm Output*	Lift Control	002	Networking / Stand-Alone
Auto Open	Disable*	Enable	004	Networking/Stand-Alone	Stop Alarm by...	None*	Push Button / Door Closed	004	Networking / Stand-Alone
Exit by Push Button	Disable*	Enable	016	Networking/Stand-Alone	Door bell	Disable*	Enable	128	Networking / Stand-Alone
Master Reader of Network	Slave*	Master	032	Networking	C - 28'DDD#				
Enter/Exit Reader	Outdoor*	Indoor*	064	Networking	Function	0	1	Value	Application
Anti-pass-back	Disable*	Enable	128	Networking	Force Open Alarm Output	Disable*	Enable	128	Networking / Stand-Alone

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

Entering Exiting 123456# or *Master Code# (if already changed) *#	Access programming mode 123456# or *Master Code# (if already changed) → 04'N# (Input: 4/6/8)																																																
B - Initial Setup 1.Restoring Factory Settings Access programming mode 123456# or *Master Code# (if already changed) → 20'000# → 24'000# → 26'0000'01023'2# → 28'000# → 29'29'29# → Changing the Master Code to default value: 123456 → *# (done) 2.Changing the Master Code Access programming mode 123456# or *Master Code# (if already changed) → 09'PPPPPPRRRRRR# (input the 6-digit new master code twice) 3.Changing the Node ID of Reader Access programming mode 123456# or *Master Code# (if already changed) → 00'NNNN# (Node ID: 001~254)	<table> <tr> <th>Mode</th><th>M4</th><th>M6</th><th>M8</th></tr> <tr> <td>Application</td><td>Stand-Alone Networking</td><td>Stand-Alone</td><td>Stand-Alone Networking</td></tr> <tr> <td>Support</td><td></td><td></td><td></td></tr> <tr> <td>User Capacity</td><td>1024 (0~1023)</td><td>65535 (1~65535)</td><td>1024 (0~1023)</td></tr> <tr> <td>Access Mode</td><td> 1. Card only 2. Card and PIN (4-digit individual PIN) 3. Card or PIN (if access by PIN only, user should press 9-digit PIN = 5-digit user address + 4-digit individual PIN) </td><td> 1. Card only 2. Card and PIN (4-digit public PIN = Arming PWD) 3. Card or PIN (4-digit public PIN = Duesess code) P.S.: Duesess code is unavailable under M6 and as PWD of PIN only </td><td> 1. Card only 2. Card and PIN (4-digit individual PIN) 3. Card or PIN (if access by PIN only, user could just press 4-digit individual PIN) </td></tr> <tr> <td>Auto-show Work Status</td><td>V</td><td>X</td><td>V</td></tr> <tr> <td>Event Capacity</td><td>1200</td><td>X</td><td>1200</td></tr> <tr> <td>120 Holidays</td><td>V</td><td>X</td><td>V</td></tr> <tr> <td>Duesess</td><td>V</td><td>X</td><td>V</td></tr> <tr> <td>Time Zone</td><td>11</td><td>X</td><td>11</td></tr> <tr> <td>Lift Control</td><td>32</td><td>X</td><td>32</td></tr> <tr> <td>Anti-pass-back</td><td>V</td><td>X</td><td>V</td></tr> </table>	Mode	M4	M6	M8	Application	Stand-Alone Networking	Stand-Alone	Stand-Alone Networking	Support				User Capacity	1024 (0~1023)	65535 (1~65535)	1024 (0~1023)	Access Mode	1. Card only 2. Card and PIN (4-digit individual PIN) 3. Card or PIN (if access by PIN only, user should press 9-digit PIN = 5-digit user address + 4-digit individual PIN)	1. Card only 2. Card and PIN (4-digit public PIN = Arming PWD) 3. Card or PIN (4-digit public PIN = Duesess code) P.S.: Duesess code is unavailable under M6 and as PWD of PIN only	1. Card only 2. Card and PIN (4-digit individual PIN) 3. Card or PIN (if access by PIN only, user could just press 4-digit individual PIN)	Auto-show Work Status	V	X	V	Event Capacity	1200	X	1200	120 Holidays	V	X	V	Duesess	V	X	V	Time Zone	11	X	11	Lift Control	32	X	32	Anti-pass-back	V	X	V
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Lift Control	32	X	32																																														
Anti-pass-back	V	X	V																																														
D - Setting up the password 1.Individual PWD (M4/M8) a. Card or PIN Access programming mode 123456# or *Master Code# (if already changed) → 12'UUUUU'PPPP# (i.e. User address: 00001 and PWD: 1234, input 12'00001'1234#) b. Card and PIN Access programming mode 123456# or *Master Code# (if already changed) → 13'UUUUU'PPPP# (i.e. User address: 00001 and PWD: 1234, input 13'00001'1234#)	2.Public PWD (M6) a. Card and PIN Access programming mode 123456# or *Master Code# (if already changed) → 17'PPPP# (Input: 4-digit PWD, default value: 1234) b. PIN only Access programming mode 123456# or *Master Code# (if already changed) → 15'PPPP# (Input: 4-digit PWD) Tag Information																																																
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'SSSSS'EEEE'1# (i.e. User address from 00001 to 00005 enable the anti-pass-back function: 26'00000'00005'1#)	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 • Enable/Disable auto open door without presenting card ■ Access programming mode 24'001# please refer to 24'DDD# function default value for additional function value • Setting up open time ■ Access programming mode → 08'N'HHMMHMM'1111111# N: 2 sets of auto-open zone (N=0=1st set; N=1=2nd set) HHMMHMM=starting time to ending time (i.e.: 08301200=08:30 to 12:00)																																																

Adding and Deleting Tag

Adding Tag (M4/M8)			Deleting Tag (M4/M8)		
Single Tag	A Batch of Tags		Single Tag	A Batch of Tags	Delete All Tags
RF Learn Function	Sequential Tag NO.	Random Tag NO.	Memory Location	Memory Location	Access programming mode
Access programming mode 123456# or *Master Code# (if already changed)	Access programming mode 123456# or *Master Code# (if already changed)	Access programming mode 123456# or *Master Code# (if already changed)	Access programming mode 123456# or *Master Code# (if already changed)	Access programming mode 123456# or *Master Code# (if already changed)	Access programming mode 123456# or *Master Code# (if already changed)
19'UUUUU'QQQQQ# UUUUU=5-digit User Address: 00000~01023 QQQQQ: Input 00001 (Only one tag) (i.e.: 19'00001'00001)	19'UUUUU'QQQQQ# UUUUU=5-digit User Address: 00000~01023 QQQQQ: Input 5-digit tag units: Enter the quantity of tags to be added. (i.e.: 10 pos of sequential tag=00010)	19'UUUUU'QQQQQ# UUUUU=5-digit User Address: 00000~01023 QQQQQ: Input 00001	10'SSSSS'EEEE# 9=Delete SSSSS=starting user address EEEE=ending user address (i.e. Delete User Address: 00004~00010=10'000040000010)	10'SSSSS'EEEE# 9=Delete SSSSS=starting user address EEEE=ending user address (i.e. Delete User Address: 00004~00010=10'000040000010)	29'29'# Done
Close Tag into RF Area Present the tag to the controller. OK (Memory location number)	Close Tag into RF Area Present the tag with the lowest number to the controller. OK (Memory location number)	Close Tag into RF Area Present the tag to the controller. OK (Memory location number)	Done	Done	Done

M6		G - Setting up the alarm	
Adding Tag (M6)	Deleting Tag (M6)	1.Conditions:	
Access programming mode 123456# or *Master Code# (if already changed)	Access programming mode 123456# or *Master Code# (if already changed)	2.Alarm system connected	
11'SSSSS'EEEE# SSSSS=starting user address=5-digit card code EEEE=ending user address=5-digit card code (i.e. Add a tag with card code 15031= 11'15031'15031) (i.e. Add a batch of tag with card code 15031~15038= 11'15031'15038)	10'SSSSS'EEEE# or 10'SSSSS'EEEE# SSSSS=starting user address=5-digit card code EEEE=ending user address=5-digit card code (i.e. Delete a tag with card code 15031= 11'15031'15031) (i.e. Delete a batch of tag with card code 15031~15038= 11'15031'15038)	Q: How to enable/disable the arming status?	
Done	Done	A:	
		By Keypad	
		By flashing card + Arming PWD	
		Enable Access programming mode → press *#	
		Disable Access programming mode → press *#	

3.Flow chart:	
Normal Open:	Arming setting → Enable Arming → Arming Delay TM → Door Opened → Alarm system activated → Door Relay TM → Door Close TM → Alarm Delay TM → Alarm Relay TM
Abnormal Open:	Arming setting → Enable Arming → Arming Delay TM → Alarm Delay TM → Alarm Relay TM

Function	Command	Description
Door Relay TM	02	To set how long the door relay (lock release) is active for after showing a card. Range: 0 ~ 600 (sec.); 601~609 (0.1~0.9 second)
Door Close TM	18	To set value '0' will make door keep opening till card presented again, then door close. (Default value: 7 sec.)
Alarm Relay TM	03	When an alarm condition has arisen, the alarm will activate for this duration. Range: 1 ~ 600 (sec.) To set value '0' will make alarm relay keep on until disarming, then alarm relay off. (Default value: 7 sec.)
Alarm Delay TM	06	To delay the activation of the alarm relay after an alarm condition has arisen, so that user can have enough time to disable alarm. (Default value: 1 sec.)
Arming Delay TM	05	To delay the time of enabling arming, so that user can have enough time to disable arming. Range: 1 ~ 600 (sec.) (Default value: 1 sec.)
Force Open	28	Activate the alarm immediately without having any alarm delay TM.

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