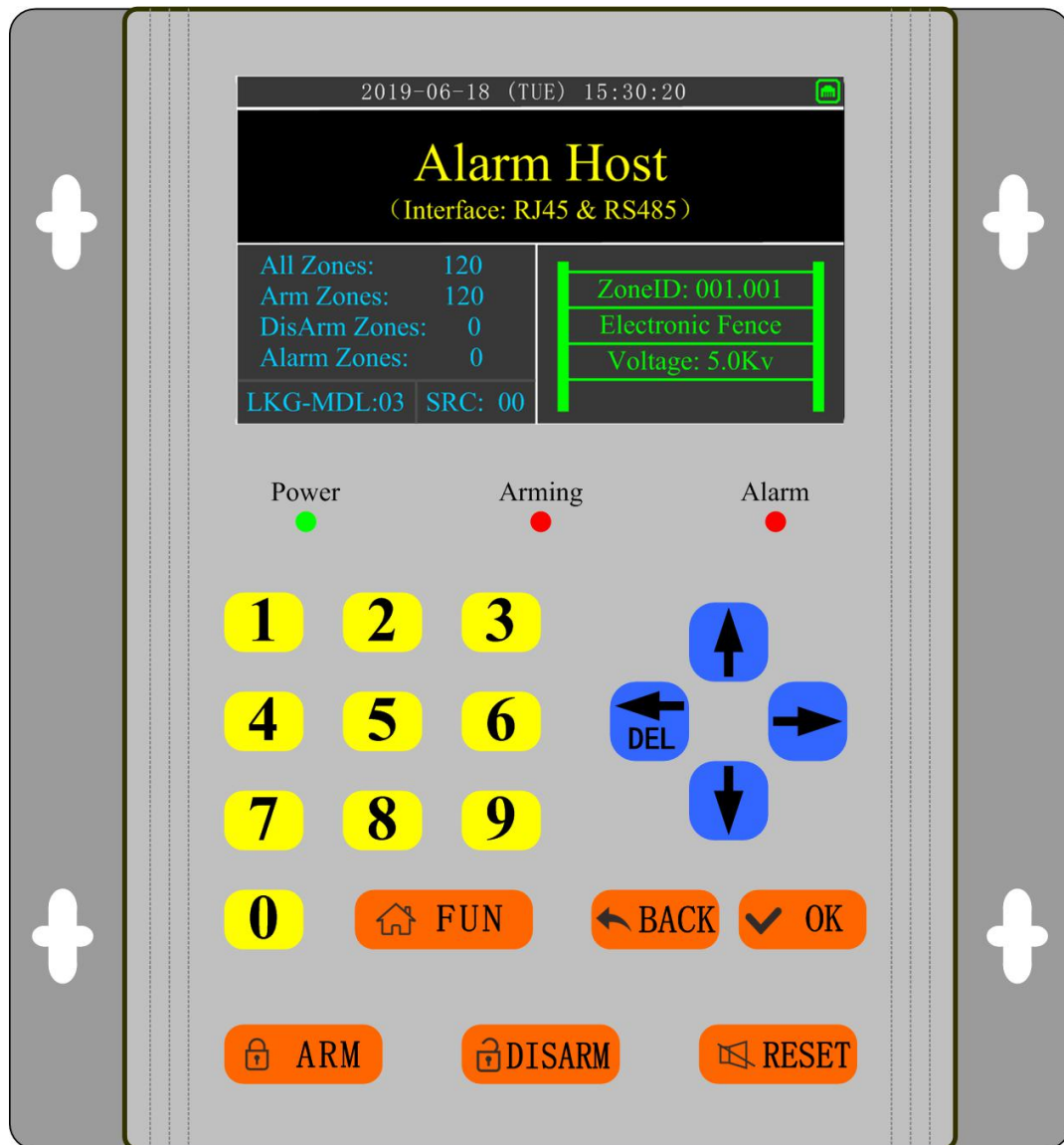


Alarm Host User Manual

Model: A1000

Ver: V05



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1. Overall State:

1.1. Feature:

- 4.3 inch LCD Color screen, concise user interface and menu hint design.
- Support 2 communication interfaces: RS485 BUS interface, RJ45 IP interface.
- Support up to 120 “zones”.
- Support up to 20 “wireless zones”.
- Support up to 20 “Linkage Module”.
- Support cascade system, up to 2005 “Alarm Host” or “PC Software”.
- Support 2*Source-End (Pre-Alarm-Host) setting, Each “Alarm Host” can manage and control 2* “Alarm Hosts”.
- Support 4*Center Network Settings.
- Support multiple alarm output port: DC12V Siren alarm output, Switch alarm signal output(NO、NC、COM) 、 RJ45 IP interface.
- Support Zones name settings: “Electronic Fence”, “Tighten FE”, “HV-Grid”, “Lkg Cable”, “Addr-MDL”, “Laser Sen”, “IR Sen”, “PIR Sen”, “Smoke Sen”, “GAS Sen”, “SOS Button”, “Door Sen”, “Curtain SR”, “Fire Sen”, “IR-Fence”, “WL Zone”, “Zone”.
- Support up to 20* wireless remote controllers, key function of wireless remote controller can be set by user.
- Support Auto-Search & Add “Zone/Device”.
- Support Auto-Search & Add “IP Linkage Module”.
- Support “Auto-Arm/Auto-Disarmed Setting”, Up to 42 timers.
- Support “Shortcut Arm”、 “Shortcut Disarmed”、 “Shortcut Alarm Reset”(Shortcut Password can be set) .
- Support multiple alarm voice.
- Support up to 10000 items of “Alarm Records”.
- Support up to 10000 items of “Operation Records”.
- Support 2 levels of users: Administrator, Operator.
- Support 4 PC software manage and control the alarm host at the same time.
- Green power normal indicator, Red ARM state indicator, Red Alarm state indicator.
- Support zones parameter setting, such as: Arm, DisArm, Alarm Reset, Alarm Out Times, Alarm SEN, Modify ID, Voltage, Pulse Period, Touch SEN, Relax THR, Harden THR, ELEC QTY, Restore FTY and so on. Parameters can be set separate or in batches.
- Support alarm duration setting: range from 5 seconds to 10 minutes.
- Support add & delete zones/device separately or in batches.
- Support batch setting Net-Center parameters for “IP zone/Device” and “IP Linkage Module”.
- Support RS485 data sent cycle settings.
- Support setting communication failure alarm.
- Support setting Local Network parameters.
- Support updating software online.

- Language: Chinese, English.

1.2. Specification:

- Working Voltage: DC12V–DC30V
- Power Consumption: Static Consumption: 1.98W(12V, 165mA)
Alarm Consumption: 2.16W(12V, 180mA)
- Siren ALM output: DC 12V, current <1000mA
- Product Dimension: 178*168*32mm
- Wireless Parameter: 433MHz, Ev1527
- IP Interface: RJ45, 10M/100M
- RS485 interface: Baud rate: 4800bps

2. Description of keys, LED indicators and interface:

2.1. Specification for the keys:

(1) [0] - [9] :Number Keypad

- A、 Input value.
- B、 Quick choose menu number.

(2) [↑]、 [↓]、 [←]、 [→] Direction keys:

Move cursor, turn page, change options.

(3) [FUN] Key:

- A、 Press [FUN] to enter “Password Input Interface”.
- B、 Input “Administrator Password” or “Operator Password”.
- C、 Press “OK” to enter relevant “Parameter settings” interface.

(4) [Del] Key:

Press [Del] to cancel the last operation.

(5) [OK]、 [BACK] Keys:

Press[OK] to confirm and return to the previous menu; Press [BACK] to cancel and return to the previous menu.

(6) [ARM]、 [DISARM]、 [ALM RESET] : Shortcut keys:

Shortcut keys operate all “Zones/Device”. “shortcut operation password” is null, means operating without password.

2.2. LED Indicators:

(1) Power LED:

Always ON: the Alarm Host power on.

(2) ARM LED:

Always ON: Arming state.

Light OFF: Disarmed state.

(3) ALARM LED:

When alarming, the ALARM LED is always on.

2.3. Interface Declarations:

(1) power port:

DC12V-DC30V.

(2) IP port:

RJ45.

(3) RS485 port:

RS485-, RS485+, GND.

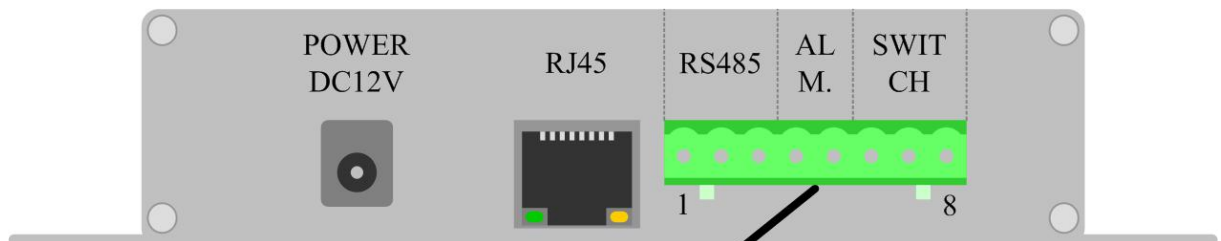
(4) Siren Alarm port:

DC12V-, DC12V+.

(5) Switch alarm signal output port:

NC(Normal close)、NO(Normal Open)、COM(common port)

Interface descriptions:



The 8 Pins Description:

RS485			ALM. OUTPUT		SWITCH OUTPUT		
1	2	3	4	5	6	7	8
RS485 -	RS485 +	GND	DC 12V-	DC 12V+	NC	NO	COM

3. User and Password Description:

3.1. User Description:

(1) Administrator:

Administrator permissions: Set all parameters, View all information.

(2) Operator:

Operator permissions can be limited .Such as “Arm”、 “Disarm”、 “Alarm Reset”、 “Information Inquiry”.

3.2. Password:**(1) Administrator Password:**

Default administrator password is “**2010**”.

(2) Operator Password:

Default operator password is “**2011**”.

(3) Shortcut Password:

Default shortcut password is **NULL** (means operate shortcut keys without shortcut password).

4. Parameter Settings:**4.1. Enter and Exit “Parameter Setting Interface” :****(1) Enter “Parameter Setting Interface”:**

- A、 In the main interface, press [FUN] to enter “Password Input Interface”.
- B、 Input “Administrator Password” or “Operator Password”.
- C、 Press “OK” to enter relevant “parameter setting interface”.

(2) Exit “Parameter Setting Interface”:

- A、 Press “BACK” key to Exit “Parameter setting interface”.
- B、 Auto-exit “Parameter setting interface” without operation in 1 minutes.

4.2. Menu Structure of Parameter Setting:

Main Menu	Sub Menu	Default	Declare
1. Zone / Device: Add & Delete & Set	1. Zones: AUTO-Search & Add	----	Auto-search and Add all zones.(on RS485 bus & in LAN(0.***)).
	2. Zones: Batch Add & Delete	0	Add the first N ID's zone. N = [0, 120]. If N=0, all zones will be deleted.

	3. Zones: Parameter Settings	----	Parameter Type : “Arm”, “Disarm”, “Alarm Reset”, “ALM Out Time”(Alarm duration time), “ALM SEN”(Alarm sensitivity), “Modify ID”, “Voltage”, “Pulse Period”, “Touch SEN”(touch sensitivity), “Relax THR”(relax threshold value), “Harden THR”(harden threshold value), “ELEC QTY”, “Restore FTY”(restore factory). Choose “All Zones” or “** Zone ID”.
	4. Linkage Module: AUTO-Search & Add	----	Auto-search and Add all “IP Linkage Module” in LAN.
	5. Linkage Module: Batch Add & Delete	0	The range of the Linkage Module: N = [0, 20]. Linkage Module ID = [221, 240]. If N=0, all Linkage Modules will be deleted.
	6. Zone/Device: Single Add & Delete	----	You can add or delete the “Zone/Device” individually. The range of zones’ ID: [1, 120]. The range of Linkage Modules’ ID: [221, 240].
	7. Zone/Device: Net-Center Settings	----	Batch Set Net-center parameters of all opened “IP zone/device” and “IP Linkage module”.
	8. Wireless Zones: Add	----	Add wireless zones: in this interface, trigger the wireless zone to be added! The quantity of added wireless zones is displayed here.
	9. Wireless Zones: Delete		Delete all added wireless zones.
	10. Zones Name Settings	----	Set “Zone Name” of each zone. Such as: “ELEC Fence”, “Tighten FE”, “HV-Grid”, “LKG Cable”, “Vbe Fiber”, “Addr-MDL”, “Laser Sen”, “IR

			Sen”, “PIR Sen”, “Smoke Sen”, “GAS Sen”, “SOS Button”, “Door Sen”, “Curtain SR”, “Fire Sen”, “IR-Fence”, “WL Zone”, “Zone”.
2. Local Parameter Settings	1. Alarm Host ID Settings	0.0	The device ID consists of two ID: Alarm-Host-ID & Zone-ID! The Zone-ID = 0! The range of Alarm-Host-ID:[0, 250].
	2. Local Network Settings	(1) DHCP: Opened (2) If dynamic IP acquisition fails, the static network parameter: 192.168. 1.110 255.255.255. 0 192.168. 1. 1 (3) Local Port: 50002	Local network parameter of the Alarm host can be set: DHCP、Local IP、Mask、Gateway、Local Port. DHCP is enabled by default, and if the dynamic IP acquisition fails, the static network parameters described on the left are used.
	3. Center Network Settings	Center1: Closed Center2: Closed Center3: Closed Center4: Closed	Set the 4 centers network parameters of the Alarm host (center IP and center port). Centers can be turned on or off separately.
	4. Source-End (Pre-Alarm-Host) Settings	Src-End 1: Closed Src-End 2: Closed	The Src-End means the Pre-Alarm-Host. If the Src-End of ID is opened, the host will be the cascade level of the Src-End! Select and enter “Alarm-Host-ID” of the Src-End to open it!
	5. Host Online Time Settings	20 S	The Online Time is the time interval when the host sends heartbeat to the center! Online time = [1, 254] s.
	6. Communication-Failure Settings	(1) Communication Fail FUN”: Opened (2) 5 (3) 50 S	The “Communication Failure alarm” function is opened by default!
	7. RS485 Data Sent Cycle Settings	60 ms	The range of RS485 Sent Cycle = [50, 5000] ms.
3. Information Inquiry	1. Local Information: Inquiry	----	Information and parameter of Alarm Host. Press [↑]/[↓] to turn page.

	2. Zone Information: Inquiry	----	View the status and network information of all open zones. Press [↑]/[↓] to turn pages. Press [←]/[→] to switch zone's info (state/network).
	3. Wireless Zone Information: Inquiry	----	View the status and network information of all open wireless zones. Press [↑]/[↓] to turn pages. Press [←]/[→] to switch zone's info (state/network).
	4. Linkage Module Information: Inquiry	----	View the status and network information of all open NET-Linkage Module. Press [↑]/[↓] to turn pages. Press [←]/[→] to switch zone's info (state/network).
	5. Alarm Records: Inquiry	----	View all alarm records. Press [↑]/[↓] to turn pages.
	6. Alarm Records: Delete	----	3 ways to delete alarm records: (1) Del ALL (Delete all alarm records!) (2) By Items (Keep the last N Items records!) (3) By Day (Keep the last N Days records!). The top right corner display: number of alarm records.
	7. Operation Records: Inquiry	----	View all Operation Records.
	8. Operation Records: Delete	----	3 ways to delete operation records: (1) Del ALL (Delete all operation records!) (2) By Items (Keep the last N Items records!) (3) By Day (Keep the last N Days records!). The top right corner display: number of operation records.
4. Wireless Remote Controller Settings	1. Wireless Remote Controller: Add	----	In this interface, trigger the wireless remote to be added, then the wireless remote will be added automatically!

	2. Wireless Remote Controller: Delete	----	Delete all wireless remotes!
	3. Wireless Remote Controller: FUN-Set	Wireless Arm Wireless Disarm Wireless ALM Reset Wireless SOS ALM	Set function of remote keys: Option: Wireless Arm, Wireless Disarm, Wireless ALM Reset, Wireless SOS ALM, Wireless Arm-HV (High Voltage), Wireless Arm-LV(Low Voltage).
5. Auto-Arm / Auto-DisArm Settings	1. Auto-Arm/Auto-DisArm: Add	----	Auto Arm/Disarm Timers: (1) OPS ZONE: operate Auto arm/disarm zones. (2) OPS TIME: operate Auto arm/disarm time. (3) OPS TYPE: Operate Auto Arm/Disarm Type. Press “OK” to confirm. Up to 42 timers.
	2. Auto-Arm/Auto-DisArm: Delete	----	Remove the currently selected “Auto Arm/Disarm” timer. Press [↑]/[↓] to select “Auto Arm/ Disarm” timer records. Press “OK” to delete it.
6. Password & Permission Settings	1. Shortcut password Settings	NULL (Without The Password)	Modify shortcut password here. The shortcut password needs to be entered when pressing [ARM], [DISARM] and [ALM Reset]. The password is 0~4 digits! When the password is set to NULL, you can Arm, Disarm and ALM-Reset without shortcut password.
	2. Administrator Password Settings	2010	Modify administrator password here. The password is 0~4 digits! By default, the administrator has all permissions, include setting all parameters and viewing all information!
	3. Operator Password Settings	2011	Modify operator password here. The password is 0~4 digits! By default, the operator has

			partial permissions.
	4. Operator Permission Settings	“Arm” 、 “Disarm” 、 “Alarm Reset” 、 “Information Inquiry”	Options of operator permission: “Arm” 、 “Disarm” 、 “Alarm Reset”、 “information inquiry”、 “Record deletion” 、 “Zone/Device: Add & Del” 、 “Other Parameter Set”.
	5. Current User For This Host	Administrator	Set the current user level of the alarm host here (Administrator or Operator).
7. System Settings	1. System Time Settings	----	Set the system time of the alarm host.
	2. System Sound Settings	(1) “Sound volume”: 100 (2) “Tips Voice”: Opened (3) “ALM Voice”: Opened (4) “ALM Voice File”: Alarm01	(1). “Sound volume”: press [←]/[→] to adjust the volume. (2). “ALM voice File”: press [←]/[→] to change alarm voice file.
	3. System Language Settings	“English”	System language: English, 中文.
	4. Other System Parameter Settings	(1) Black Light Time: 60s (2) Shortcut-Arm Volt: 5.0 KV	(1). Black light time: the range is [0, 65535] S, Default: 300 S! (2). Shortcut-Arm voltage is the default voltage for Arm!
	5. Restore Factory Settings	----	Press “OK” to restore factory setting. (Erase all data and all parameters will be restored to factory defaults) .
	6. Software Version	----	Software Version Info.

5. Treatment of Other Common Problems:

5.1. The Zone/Device doesn't respond, how to solve?

- (1). The “Zone/ device” is on, and there is no repeated zone_ID.
- (2). Check communication circuit: cable、connector、conversion equipment、trunk equipment、and data switching equipment.
- (3). the “IP Zone/Device”:
 - ①. Check that all IP addresses are different;
 - ②. PING (Packet Internet Groper) all IP of the “IP Zones/Devices”.(ping *.*.*.*.*.* -t)
 - ③. Check that all network centers of “IP Zones/Device” and “IP Linkage Module ” are right.

5.2. The Zone/Device can respond, the alarm host pop-up communication alarm ,how to solve?

The response indicates that the communication circuit is working properly

- (1). The “Zone/ Device” is on, and there is no repeated zone_ID.
- (2). The “IP Zone/Device”:
 - ①. Check that all IP addresses are different;
 - ②. Check that network centers of “IP Zones/Device” and “IP Linkage module” are right. Set the IP address and communication port of the “alarm host” same as one center parameter.

5.3. Can’ t found the Zone/Device ,how to solve?

- (1). Check that all RJ45 LED indicate normal.
- (2). Check that all IP addresses are different.
- (3). Check that the “alarm host ID” is consistent (“Alarm Host” only search for “Zone/ Device” that matches the “Alarm Host ID” in the LAN).