Aristel AN-3804 User Manual
Single Residence 4G Intercom with Keypad

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1. Overview

This product utilizes advanced LTE (4G) mobile communication technology to provide high-speed intercom performance and reliable unlocking. It enhances the communication quality between visitors and residents, offering a smooth and secure access control experience.

2. Product Features

- Multiple unlocking methods

- 4G-enabled fast communication

- Secure SMS and phone-based unlocking

3. Functions

- Password unlock (up to 250 user codes)

- Calls resident's phone (1 admin + 3 user numbers supported)

- SMS unlock functionality

- Unlock via incoming phone call

- Unlock while actively calling the intercom

- SMS-based device configuration

4. Specifications

- Working Voltage: DC 12V–15V

- Operating Current: ~130mA

- Standby Current: ~45mA

- Temperature Range: -20°C to +65°C

5. Working Modes and Activation Instructions

1. Normal Mode: All functions are enabled.

2. Access Control Only Mode: Network-dependent features disabled.

Activation Steps:

- Insert a valid SIM card and power on the unit.

- Wait ~35 seconds for network registration.

• Success → Normal Mode

• Failure (1 min) → Access Control Mode; the device will retry every minute.

6. Audible and Visual Indicator Prompts

Indicator	Description
Fast blinking (200ms)	Searching for network
Slow blinking (1s)	Network registered
Blinking every 3s	SIM error or missing
Solid light	On a call
No light	No network
Short beep	Successful action
Long beep	Error
Two long beeps	Error, returning to standby
Five short beeps	Admin password reset success

7. System Settings

Enter admin settings:

#<Admin Password># (Default: 1234)

Exit after 20s of inactivity with two long beeps.

7.1 Modify Administrator Password

Input: 000

Input: New 4-digit password + # + confirm

Short beep indicates success

7.2 Set Resident Password

Input: 3-digit slot number (001-020 for temporary password, 021-250 for resident password)

Input: New password (2–8 digits) + # +New password (2–8 digits)

Supports 250 resident passwords.

7.3 Set Unlock Time

Input: 251

Enter: Time in seconds (00–99) + # + confirm (default is 5s)

• 00 keeps door unlocked until re-entered

7.4 Reset Command 1 (Full Reset)

Input: 253, then 888#888

• Resets admin password, unlock time, passwords, and numbers

7.5 Reset Command 2 (Partial Reset)

Input: 254, then 999#999

• Resets admin password, mic/speaker volume, unlock time

7.6–7.9 Set Phone Numbers

(whether to add area code or 0 is decided by the operator.)

Admin: 256

Resident 1–3: 257, 258, 259

Format: Number + # + confirm

7.10 Adjust Microphone Volume

Input: 260, then level 1–5 + # + confirm

7.11 Adjust Speaker Volume

Input: 261, then level 1–5 + # + confirm

7.12 Delete All Passwords

Input: 262, then 777#777

Command on keypad door station: #1234#262.

Di sound be heard, then press 777#777.

delete success.

SMS command: 1234#262#**7777#**

7.13 Set Authorization Numbers (Dial-in numbers)

Input: **263**, **slots (001-100)**, Password: **1234**

Format: #**1234**#**263Slot**MobileNumber#MobileNumber

Examples: For Mobile numbers. **0481 569 578 & 0412 303 030**

Dial on the door keypad the following command

#**1234**#**263001**0481569578#0481569578 **Example 1.**

#**1234**#**263100**0412303030#0412303030 **Example 2.**

SMS command:1234#263#001#MobileNumber(001=slots)

7.14 Unlock Permission Settings

Input: 264, then:

• 0#0 = Both locks

• 1#1 = Lock 1

• 1#2 = Lock 2

Command on keypad door station: #1234#264

Di sound be heard, press 0#0/1#1/1#2.

SMS command: 1234#264#A#

(A=0 both locks,A=1 lock1, A=2 lock2)

8. SMS Commands

8.1) Set Administrator Phone Number

Format: CCCC#00*#334455

- CCCC is the admin password

- Response: Set entry password!

8.2) Modify Administrator Password (admin only)

Format: CCCC#PWD#SSSS#

- CCCC is the current admin password

- SSSS is the new password

- Response: OK!

8.3) Set User Phone Numbers (admin only)

Phone 1: CCCC#01*#XXXXXXXX → Set first number success!

Phone 2: CCCC#02*#XXXXXXXX → Set second number success!

Phone 3: CCCC#03*#XXXXXXXX → Set third number success!

XXXXXXXX = Phone number (No need # in the end.)

Note: Press the door call button, it will rings all the above three phones in sequence no worries and you can trigger the relay too by pressing the * or # .

8.4) SMS Unlock (admin and users)

Format:

CCCC#04*# → Triggers Relay 1

CCCC#05*# → Triggers Relay 2

- Response: OK!

8.5) Check Signal Strength (admin only)

Format: CCCC#08*#

- Returns a value from 1–31 (higher = better signal)

8.6) Set Unlock Duration (admin only)

Format: CCCC#09*#TT

- TT = delay time in seconds (00–99)

- Response: Set the lock delay success!

8.7) Add Resident Password (admin only)
Format: CCCC#11*#AAA#LLLLLLLL

- AAA = 3-digit resident code (021-250)

- LLLLLLLL = password (2–8 digits)

- Response: success or fail

Add Temporary Password (admin only)
Format: CCCC#11*#AAA#LLLLLLLL

- AAA = 3-digit resident code (001-020)

- LLLLLLLL = password (2–8 digits)

8.8) Set Microphone Volume (admin only)
Format: CCCC#MIC#A#

- A = volume level (1–5), default is 5

- Response: OK!

8.9) Set Speaker Volume (admin only)
Format: CCCC#SP#A#

- A = volume level (1–5), default is 3

- Response: OK!

8.10) Factory Reset (admin only)
Format: CCCC#REST#

- Resets all settings except SIM/network info

- Response: OK!

8.11) Call Divert Duration
Format: 1234#RING#TT#

- TT = duration in seconds (01–99)

- Example: 1234#RING#15#

8.12) Call Duration

Format: 1234#CALL#TTT#

- TTT = call time in seconds (001–999)

- Default: 60 seconds

8.13) Do-Not-Disturb Mode (DND)

Format:

1234#DND#1 → Enable DND

1234#DND#0 → Disable DND

8.14) Temporary Password – Time Restrictions

Format: 1234#B001#0830#1600#1

SMS reply: DNDB:001.0830#1600#1

- B = active

- 001 = time slot (001–020)

- 0830 = start time

- 1600 = end time

- 1 = day of the week (1 = Monday, 7 = Sunday)

Format: 1234#DND#DB#01(inactive the first time slot)

DB=inactive

01=time slot

DND=just a command, no special meaning.

8.15)Do-not-disturb mode

1234#DND#1(1=ON, 0=OFF)

Note: slot 001-020 are temporary password range.(each password cannot be repeated.)

- SMS commands can reset the admin password, delay time, and user data.

- Verify command format before sending.

9. SMS Alerts for Panel Errors

Wrong admin password: 'Wrong password!'

Invalid command: 'Invalid message!'

Unauthorized access: 'Do not have permission!'

10. Call and Unlock Operation

- Visitor Call: Press call, dials up to 3 numbers in sequence.

- Resident Call: Incoming call auto-answers.

- Unlock During Call:

• * = Unlock door 1

• # = Unlock door 2

- Hang Up: Press call button

- Call duration: 1 minute max

11. Unlocking Methods

- Enter password + #

- SMS command from admin/resident

- Call intercom and press * or #

- Exit button

- Auto-reset after unlock time expires (unless time set to 00)

12. Restore Factory Admin Password

If admin password is forgotten:

1. Long press S1 button (over 5 seconds)

2. Five short beeps confirm reset

• Other settings remain unchanged

13. Troubleshooting

Below is a table listing common malfunctions, possible causes, and recommended solutions.

Malfunction	Possible Cause	Solution
No call, signal flashes every 3s	Invalid SIM card or module error	Check SIM and call unit from phone
No call, no signal light	No network or antenna issue	Check antenna and ensure no shielding
No functions, no lights or sounds	Power issue	Check power input and replace adapter if needed
No key sound, call normal	Call key cable loose/broken	Check call key cable connection
No key sound, call not possible	Keyboard cable loose/broken	Check keyboard cable connection
Cannot unlock	Door lock wiring issue	Ensure door lock is properly connected

Wiring Diagram
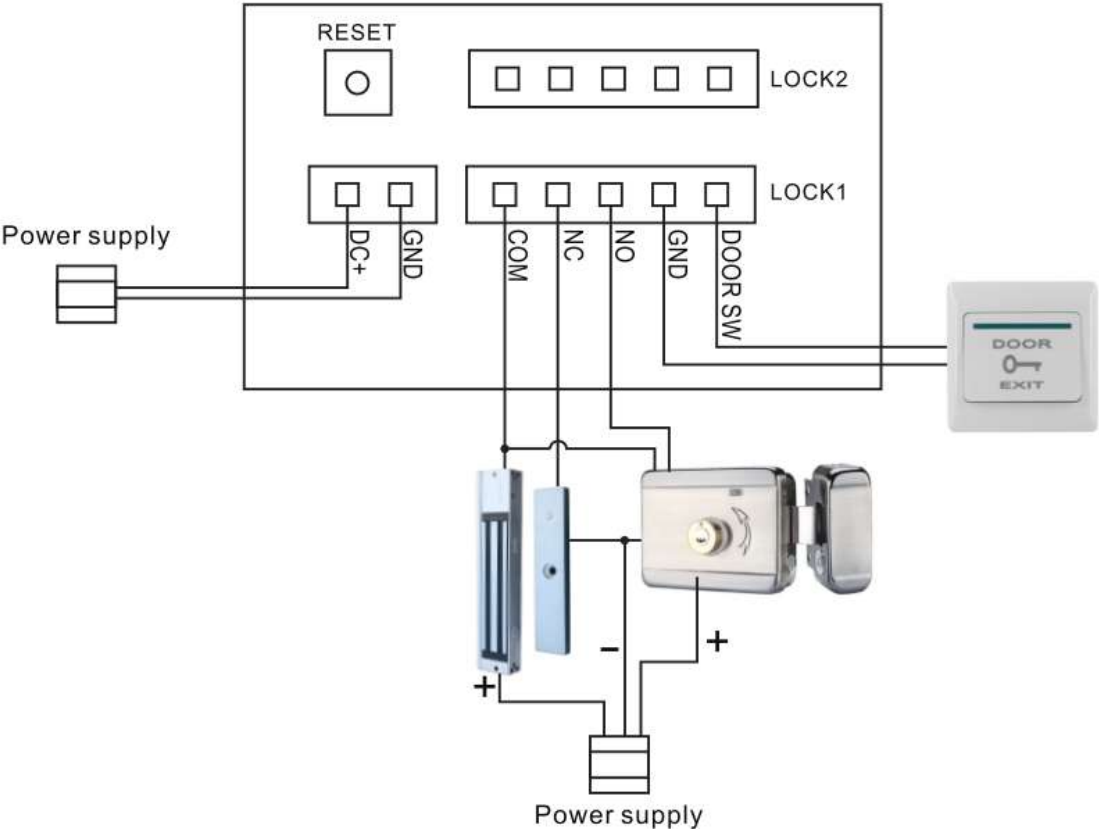
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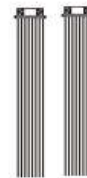
Outdoor station

Antenna

Power supply

Manual

Plastic Anchor

Screws

spanner

5 PIN cables

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E.&O.E.