**FERMAX**

# MEET  MARINE  PANEL
# INSTALLER'S MANUAL

**ENGLISH  Version**

**This manual corresponds to FERMAX MARINE MEET PANEL firmware version V02.10.**

FERMAX ELECTRÓNICA S.A.U.

http://www.fermax.com

MEET DIGITAL VIDEO Panel manual available at https://www.fermax.com/qr/meet/

# INDEX

# 1 Product Introduction

## 1.1 Overview

Speaker

High definition camera 1,2Mpx
Lighting for night vision with LEDs

4.3" TFT

keyboard

Microphone

Mifare reader
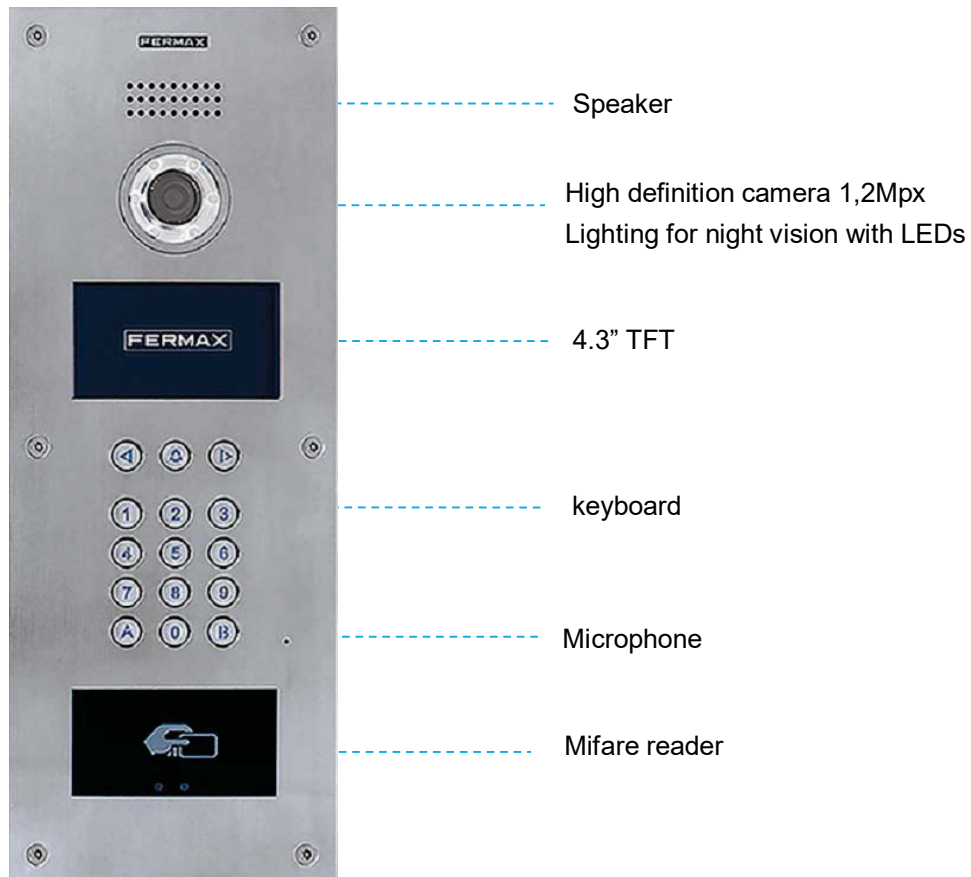
## 1.2 Panel Display Screen

Network Status



# 2 Functions Introduction

- Call apartment
- Call guard unit => Concierge
- Call volume settings
- Door opening, relay delay settings
- Exit button connector
- Voice Synthesizer
- Door opened, door forced alarm , and tamper alarm
- Lift control (Only when installed)
- PIN Access Code
- Mifare reader
- Alarm management by access control
- Face Recognition
- Electronic Directory
- Fire Alarm for lock release

■

## 2.1 Call Apartment
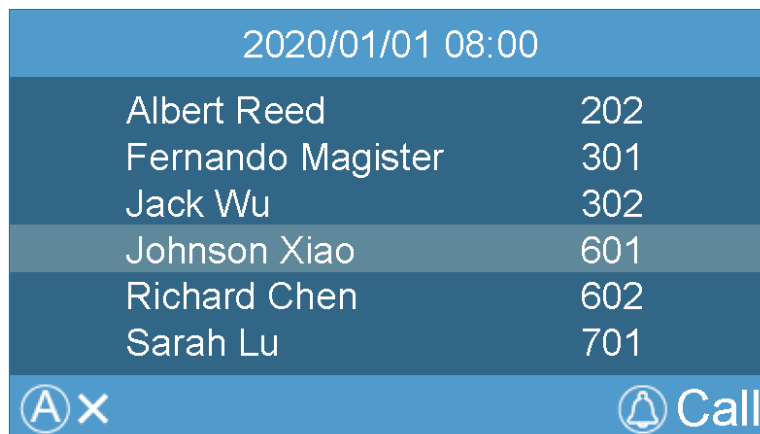
## 2.1.1 Enter Apartment Number

Visitors need to enter apartment number followed 🔔 by to confirm. For example, if the resident lives in apartment 201, the visitor should enter: 201 and press 🔔 .



## 2.1.2 Call Apartment Via Directory (If enable directory)

Access to menu , select directory icon and press B, then search the apartment that the Visitors need to call and press 🔔 .

## 2.2 Call Guard Unit

### 2.2.1 Dial Number To Call

The visitor or resident can call the guard unit by entering the number 9901 or other number of guard unit followed by 🔔 to confirm. This call can be made from all Panels.
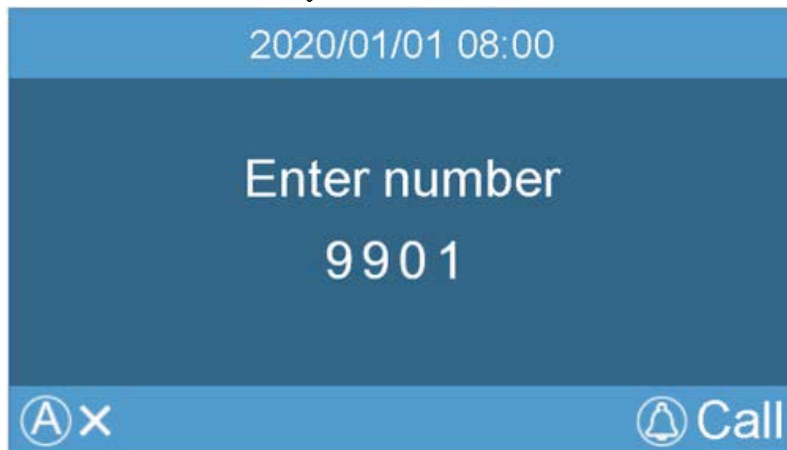


### 2.2.1 Dial Bell To Call

The visitor or resident need can call the guard unit by entering 🔔 the number.
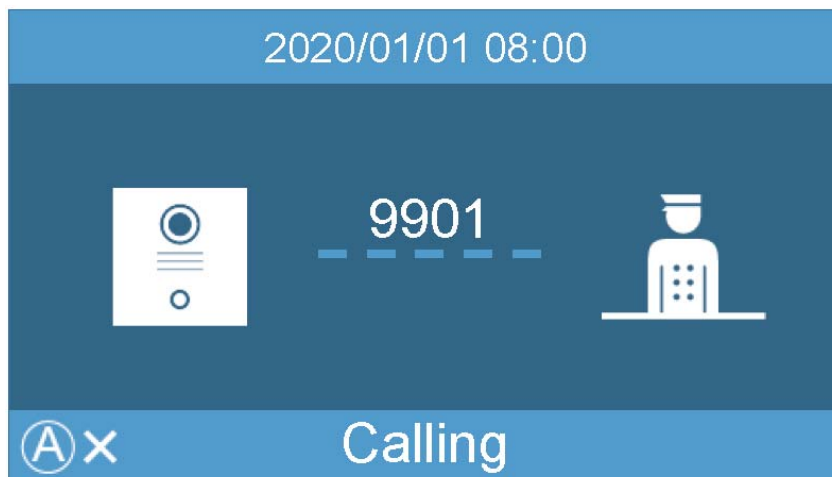


## 2.3 Access Code

Press key "A0" or access menu to access PIN code function, entering the access code followed by B to confirm.
If the access code is correct the door will open and release the lock.
You can enable or disable the function at web of the panel.

The access code to be defined at web of the panel, Maximum access code 6.
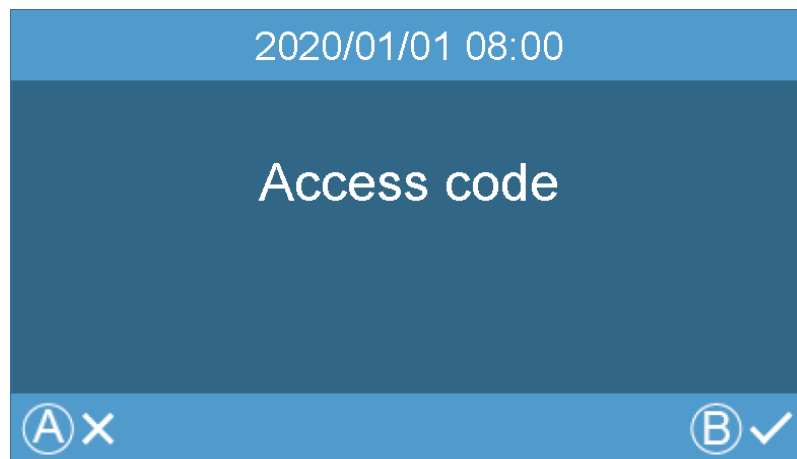


## 2.4 Face Recognition

Press key "A" two times or access menu to access face recognition function, the camera of the panel will start to read the face information. If the face data is authorized, the door will open and release the lock. The face data is to be added through the management software. Maximum face data 6000.

## 2.5 Mifare Reader

Resident can access to their corresponding entrance by passing their authorized Mifare card, the door will open and release the lock.
The Mifare card data is to be added through management software, Maximum 100,000 Mifare cards.

## 2.6 Fire Alarm

When a fire alarm occurs, the panel will appear a "Fire Alarm" prompt and automatically release all locks in this block to facilitate the safe evacuation of residents.

# 2.7 About

Enter code 9999 followed by B to confirm, The About information will show.
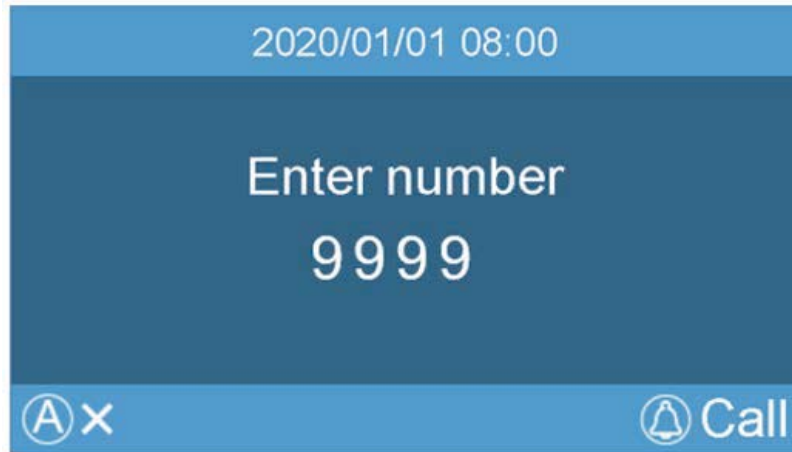


You can get information about the device name, firmware version, device info, serial no, IP address, MAC address.

# 3 Configuration via Web Server

The panel has an integrated web server, which allows to configure the parameters. This web server is accessed via the panel's IP address.

The browser opens with the configured IP address of the panel. A screen opens requesting a username and password

**Default IP: 10.1.0.1**
**Username: admin**
**Password: 123456**

## 3.1 Device Information

The following information is displayed: the device name, firmware version, device info, serial no, MAC address, IP address.

| DEVICE | |
|---|---|
| GENERAL | |
| NETWORK | |
| ACCESS | |
| FACIAL RECOG. | |
| IP CAMERA | |
| SIP | |
| SIP TRUNK | |
| SIP CALL | |
| ADVANCED | |
| PINCODE | |
| QR ACCESS | |
| RESET | |
| | |
| LOG OUT | |

**DEVICE INFO**

FERMAX MARINE MEET PANEL
FIRMWARE: V02.10S
DEVICE:BLOCK PANEL 066-03
SERIAL NO.:789A-36ED-5679
MAC:BC:F8:11:03:F4:57
IP:200.200.200.250
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www.fermax.com

# 3.2 General Settings

Configures the panel type: General entrance panel or block panel.

## 3.2.1 General Entrance Panel

**DEVICE NO.**: General entrance panel number, between 1 and 9000.

**TYPE**: For General Entrance select G.E.PANEL. The panel can communicate with all devices of the installation.

**LANGUAGE**: select the desired language in the dropdown options. (default option ENGLISH). Refresh the webpage after change the language.

**INFORMATION:** 9901 GUARD UNIT, Prompt information to be displayed on the panel, between 9901-9998, default option 9901. It is possible to modify the number according to the Guard Unit that each panel will call.

**PANEL VOLUME**: Select the desired value between 1 and 5, default option 4.

The conversation volume is common for uplink and downlink.

**DOOR OPEN VOICE:** Open door voice prompt can be enabled or disabled. The default is enabled.

**VIDEO RESOLUTION**: In order to fit the different types of monitor. The default value 640×480 is to be used usually.

**SIP DIVERT MODE**: (this feature may not be available at the time of releasing the manual)

PARALLEL CALL: When the panel calls the resident, the monitor and the call divert APP ring at the same time. Once one terminal answers the call the other one stops ringing.

SEQUENTIAL CALL: When the panel calls the resident, the monitor will ring about 30s if no answer, the call divert APP will start to ring

**DATE FORMAT**: Date format.

**DATE**: Setting the date of panel.

**TIME**: Setting the time of panel.

**TIME ZONE**: Setting the time zone of panel.

**DST**: Enable the daylight saving time option.

Select local time zone and save.

If the project has no management software the installer can set date, time and time zone manually. If the project has management software, the date and time of panel will synchronizes automatically with the management software. If the panel has access to internet, the date and time of panel will also synchronize with internet time server.

    *NOTE*: Date and time can't be saved after power loss, the time zone and date format can be saved.

| | |
|---|---|
| DEVICE | |
| GENERAL | |
| NETWORK | |
| ACCESS | |
| FACIAL RECOG. | |
| IP CAMERA | |
| SIP | |
| SIP TRUNK | |
| SIP CALL | |
| ADVANCED | |
| PINCODE | |
| QR ACCESS | |
| RESET | |
| LOG OUT | |

TYPE: G.E. PANEL

DEVICE NO.: 3

LANGUAGE: ENGLISH

PANEL VOLUME: 2

VOICE SYNTH.: ☑

VIDEO RESOLUTION: 1280x720

SIP DIVERT MODE: SEQUENTIAL CALL

CALL CONCIERGE: DIAL NUMBER TO CALL

CONCIERGE: 9901

SAVE

DATE FORMAT: DD/MM/YYYY

DATE: 23 / 07 / 2020

TIME: 12 : 00 : 11

TIME ZONE: GMT+08:00

DAYLIGHT SAVING TIME: ☐

SAVE

# 3.2.2 Block Panel

**BLOCK**: Block number, between 001 and 999 (default option 1).

**DEVICE NO.**: Panel Number, between:01-99 (default option 1).

**TYPE**: For block entrance, choose BLOCK PANEL. The panel can communicate with all devices on the same block.

**LANGUAGE**: Select the desired language for the drop-down options. (default option ENGLISH). Refresh the webpage after change the language.

**INFORMATION:** 9901 GUARD UNIT, Prompt information to be displayed on the panel, between 9901-9998, default option 9901. It is possible to modify the number according to the Guard Unit that each panel will call.

**PANEL VOLUME**: Select the desired value between 1 and 5, (default option 4).

The conversation volume is common for uplink and downlink.

**DOOR OPEN VOICE:** Open door voice prompt can be enabled or disabled. The default is enabled.

**VIDEO RESOLUTION**: In order to fit the different type of Monitor, The default values 640×480 is be used usually.

**SIP DIVERT MODE**: (this feature may not be available at the time of releasing the manual)

PARALLEL CALL: When the panel calls the resident, the monitor and the call divert APP ring at the same time. Once one terminal answers the call the other one stops ringing.

SEQUENTIAL CALL: When the panel calls the resident, the monitor will ring about 30s if no

answer, the call divert APP will start to ring

**DATE FORMAT**: Date format.

**DATE**: Setting the date of the panel.

**TIME**: Setting the time of the panel.

**TIME ZONE**: Setting the time zone of the panel.

**DST**: Enable the daylight saving time option.



Select local time zone and save.

If the project has no management software the installer can set date, time and time zone manually. If the project has management software, the date and time of panel will synchronizes automatically with the management software. If the panel has access to internet, the date and time of panel will also synchronize with internet time server.

> *NOTE*: Date and time can't be saved after power loss, the time zone and date format can be saved.

# 3.3 Network Settings

MEET allows the installer to define the IP range according to the project needs and make the network management easier. MEET panel network mode is static mode. Ensure that each device has a unique IP address in same installation. The devices (digital panel, monitor and guard unit) will show IP conflict if there same IP is used on the same LAN.

**IP**: IP address of the panel (default option 10.1.0.1).

**MASK**: Subnet mask of the panel (default option 255.0.0.0).

**GATEWAY**: Default gateway of the panel (default option 10.254.0.1).

**DNS**: DNS of the panel (default option 8.8.8.8).

**SOFTWARE IP**:   IP address of PC where MEET management software is installed.
 (default option 10.0.0.200).

**SW. PIN**: The pin code is to be used when the panel is registered in MEET management software.

| | |
|---|---|
| DEVICE | NETWORK SETTINGS |
| GENERAL | |
| NETWORK | IP:  200.200.200.250 |
| ACCESS | MASK:  255.255.255.0 |
| FACIAL RECOG. | GATEWAY:  200.200.200.1 |
| IP CAMERA | DNS:  8.8.8.8 |
| SIP | SOFTWARE IP:  200.200.200.81 |
| SIP TRUNK | SW. PIN:  •••••• |
| SIP CALL | |
| ADVANCED | SAVE |
| PINCODE | |
| QR ACCESS | |
| RESET | |
| | |
| LOG OUT | |

# 3.4 Access

**DOOR RELAY TIME**: Time for lock-release relay remains active (1-9s optional).

**OPEN DOOR DELAY**: The time when the unlocked signal is sent to the start of the relay. The delay time is useful when the lock is not close panel (0-9s optional).

**DOOR ALARM: An alarm will be issued when the door still open after the normal opening time exceeds the set time.** Disable,30s, 60s, 120s, 180s and 250s optional.

**DOOR FORCED ALARM: An alarm will be issued when an abnormal way of opening the door is detected.**

**EXT. UNLOCK:** Enable or disabled external relay unlock function.

**Relay 1-4 DOOR RELAY TIME**: Time for lock-release relay remains active (1-9s optional).

**Relay 1-4 OPEN DOOR DELAY**: The time delay between the unlock signal sent and the relay activation. The delay time parameter is useful when the door lock is not close to the panel    (0-9s optional).

**ADMIN CARD**: Master card registered to enroll additional prox cards. When there is no management software enter 0000 if you do not know the ID of the admin card. The first prox card detected by the reader will act as admin/master card the card of resident can be added afterwards. If this method is used, register the resident proximity id numbers on the cards.

**DISARM BY CARD**: When the card open the door, the alarm status of monitor corresponding unit can change to HOME mode.

**GUEST CODE:** No function now.

**ACCESS PIN**: Enable or disabled the activation of the relay for PIN code access.

UP to 8 different PIN codes per panel.

PIN length between 4 to 6 digits.

REMARK: Reference F01491 (4 relay module) must be connected to the RS485 port of the panel no.1. The module address must be set to number 2.

| | | | | | | |
|---|---|---|---|---|---|---|
| DEVICE | | | | | | |
| GENERAL | | | | | | |
| NETWORK | | | | | | |
| ACCESS | | | | | | |
| FACIAL RECOG. | | | | | | |
| IP CAMERA | | | | | | |
| SIP | | | | | | |
| SIP TRUNK | | | | | | |
| SIP CALL | | | | | | |
| ADVANCED | | | | | | |
| PINCODE | | | | | | |
| QR ACCESS | | | | | | |
| RESET | | | | | | |
| | | | | | | |
| LOG OUT | | | | | | |

DOOR RELAY TIME: 3s

OPEN DOOR DELAY: 0s

DOOR OPEN ALARM: 30s

DOOR FORCED ALARM: ☑

EXTERNAL RELEASE: ☐

| | 1# | 2# | 3# | 4# |
|---|---|---|---|---|
| DOOR RELAY TIME: | 1s | 1s | 1s | 1s |
| OPEN DOOR DELAY: | 0s | 0s | 0s | 0s |

ADMIN. CARD: 123456

DISARM BY CARD: ☑

GUEST CODE: ☑

WIEGAND: 26-BITS

FACILITY: 0

ACCESS PIN: ☑

| | |
|---|---|
| 0000 | 1234 |
| 7788 | |
| | |
| | |

SAVE

# 3.5 Face Recognition

**FACE RECOGNITION**: Enable or disabled face recognition function.

**SIMILARITY**: High, medium and low options. Default is low.

The face data must be added through MEET management software.

| | |
|---|---|
| **DEVICE** | |
| **GENERAL** | |
| **NETWORK** | |
| **ACCESS** | |
| **FACIAL RECOG.** | |
| **IP CAMERA** | |
| **SIP** | |
| **SIP TRUNK** | |
| **SIP CALL** | |
| **ADVANCED** | |
| **PINCODE** | |
| **QR ACCESS** | |
| **RESET** | |
| | |
| **LOG OUT** | |

**FACE RECOGNITION**

FACE RECOGNITION: ☑

MODEL: 5.0

LIVENESS DETECTION: DISABLED

SIMILARITY: LOW

SAVE

# 3.6 IP Camera

The monitor can switch to IP CCTV camera video during a conversation. This function allows to configure IP CCTV cameras using RTSP protocol to be displayed as an auxiliary camera to provide different view angles from the door or related areas.

**NUMBER OF CAMS**: IP camera Number. Up to 4 different cameras.

**CAMERA 1**: IP camera name.

**URL:** rtsp://user:password@ip address of ip camera.

> *user:password:* for cameras that require a username and password for connection. These fields are optional and depends on the RTSP stream of each IP camera.

| DEVICE | | IP CAMERA SETTINGS |
|---|---|---|
| GENERAL | | |
| NETWORK | NUMBER OF CAMS: | 4 |
| ACCESS | IP CAM 1: | |
| FACIAL RECOG. | URL: | rtsp://service:12345@200.200.200.200 |
| IP CAMERA | IP CAM 2: | kk |
| SIP | URL: | rtsp://admin:12345@200.200.200.200/?inst=2 |
| SIP TRUNK | IP CAM 3: | |
| SIP CALL | URL: | rtsp://service:12345@200.200.200.200 |
| ADVANCED | IP CAM 4: | ff |
| PINCODE | URL: | rtsp://admin:12345@200.200.200.238 |
| QR ACCESS | | |
| RESET | | SAVE |
| | | |
| LOG OUT | | |

# 3.7 SIP Settings

**ENABLE SIP**: Enable or disable sip function.

**SIP SERVER**: SIP server IP address.

**DOMAIN**: Sip server domain.

**OUTBOUND**: Some servers are used when NAT is active on the router.

**STUN IP**: Audio and video NAT traversing public network server IP.

**STUN PORT**: The port of audio and video NAT traversing public network server.

**H.264**: Video coding parameters.

**SIP USER**: The username of sip account.

**SIP PASS**: The password of sip account.

**CONVERSATION**: Conversation duration, 120s, 300s, 600s, 1200s and 1800s optional.

**RING TIME**: Ring time, 35s, 45s, 60s, 90s and 120s optional.

*REMARK:* When the panel is used as a sip device, call SIP devices or receive calls from other SIP devices. SIP function has to be enabled.

| | |
|---|---|
| DEVICE | |
| GENERAL | **SIP SETTINGS** |
| NETWORK | ENABLE SIP: ☐ |
| ACCESS | SIP SERVER: sip:sip.fermax.com |
| FACIAL RECOG. | DOMAIN: sip.fermax.com |
| IP CAMERA | OUTBOUND: |
| SIP | STUN IP: sip.fermax.com |
| SIP TRUNK | STUN PORT: 5060 |
| SIP CALL | H.264: 102 |
| ADVANCED | SIP USER: 0199950 |
| PINCODE | SIP PASS: ••••••• |
| QR ACCESS | CONVERSATION: 120s |
| RESET | RING TIME: 35s |
| | |
| LOG OUT | SAVE |

## 3.8 SIP Trunk

When there is a VoIP gateway installed on the system or a sip server has a PSTN line.
The panel call can be diverted to user's mobile phone or land line telephone through a voice gateway.
**ENABLE SIP TRUNK**: Enable or disable SIP trunk function.
**URL**: sip: sip account @ wan IP: 5062

| | |
|---|---|
| **DEVICE** | SIP TRUNK SETTINGS |
| **GENERAL** | |
| **NETWORK** | ENABLE SIP TRUNK: ☐ |
| **ACCESS** | URL: |
| **FACIAL RECOG.** | |
| **IP CAMERA** | SAVE |
| **SIP** | |
| **SIP TRUNK** | |
| **SIP CALL** | |
| **ADVANCED** | |
| **PINCODE** | |
| **QR ACCESS** | |
| **RESET** | |
| | |
| **LOG OUT** | |

## 3.9 Advanced

The DIRECTORY can be enabled or disabled , Press key "A8" or access menu to access Directory if the directory is be enabled.

DEVICE
GENERAL
NETWORK
ACCESS
FACIAL RECOG.
IP CAMERA
SIP
SIP TRUNK
SIP CALL
ADVANCED
PINCODE
QR ACCESS
RESET

LOG OUT

QUICK DIAL: ☐
URL:
ONU(GPON): ☐
DIRECTORY: ☐

选择文件　未选择任何文件　IMPORT　EXPORT

SAVE

## 3.10  Pincode Settings

This allows to change the pin code of the web server login.

DEVICE
GENERAL
NETWORK
ACCESS
FACIAL RECOG.
IP CAMERA
SIP
SIP TRUNK
SIP CALL
ADVANCED
PINCODE
QR ACCESS
RESET

LOG OUT

CURRENT PIN:
NEW PIN:
CONFIRM PIN:

SAVE

## 3.11  Reset

**RESTORE FACTORY SETTINGS: The basic settings are restored to the factory, the IP address will be changed to the IP: 10.1.0.1 at the factory.**
**REBOOT DEVICE: The panel will be restarted.**

| | |
|---|---|
| DEVICE | |
| GENERAL | |
| NETWORK | |
| ACCESS | |
| FACIAL RECOG. | |
| IP CAMERA | |
| SIP | |
| SIP TRUNK | |
| SIP CALL | |
| ADVANCED | |
| PINCODE | |
| QR ACCESS | |
| RESET | |
| | |
| LOG OUT | |

RESTORE FACTORY SETTINGS
OK
REBOOT DEVICE
OK

# 3.12  Logout

Log out the web server.

| | |
|---|---|
| DEVICE | |
| GENERAL | |
| NETWORK | |
| ACCESS | |
| FACIAL RECOG. | |
| IP CAMERA | |
| SIP | |
| SIP TRUNK | |
| SIP CALL | |
| ADVANCED | |
| PINCODE | |
| QR ACCESS | |
| RESET | |
| | |
| LOG OUT | |

DO YOU CONFIRM TO LOG OUT?

OK

# 4 Installation

## 4.1 Installation height

FLUSH BOX

The top of the flush box is 1.62 meters from the ground plane

1.62m

# 4.2 Connectors

| RJ45 Network | POWER INPUT DC12V | | | OUTPUT | | | | |
|---|---|---|---|---|---|---|---|---|

**RJ45 Network**

**POWER INPUT DC12V**

| 1 | 2 | 3 |
|---|---|---|
| + | — | NA |

**OUTPUT**

| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| NO | NO | C | C | NC |

**EX.PROXIMITY**

| 1 | 2 | 3 | 4 |
|---|---|---|---|
| +5V | — | WD0 | WD1 |

**Entrance hall button/Door-open sensor**

| 1 | 2 | 3 | 4 |
|---|---|---|---|
| BS | — | NA | SP |

**RS485**

| 1 | 2 |
|---|---|
| 485+ | 485- |
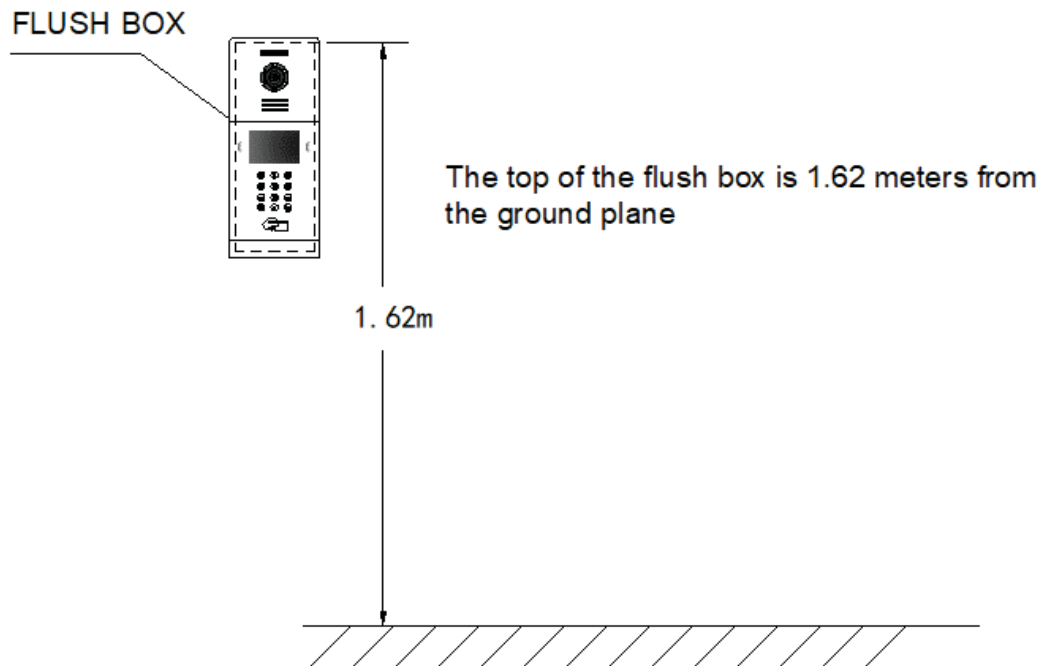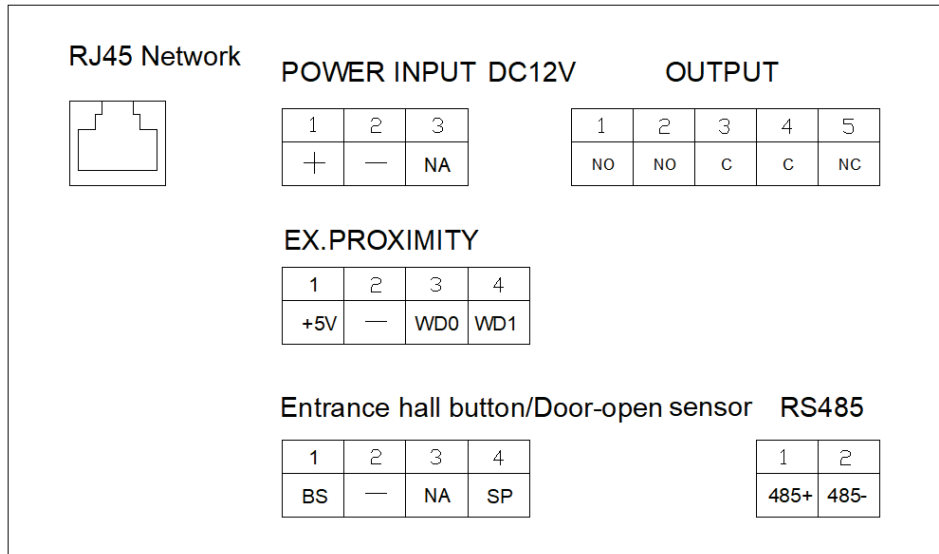
- ■  10/100Mbps RJ45 Port.
- ■  **+, —**: 12Vdc Power Input.
- ■  **C, NO, NC:** Relay contacts for release lock, the double terminals are the same connection.
- ■  **+5V, —, WD0, WD1**: Wigand-26 protocol output or input.
- ■  **BS, —**: Exit button.
- ■  **NA, —**: Fire alarm. Need connected Block Device NO 1.
- ■  **—, SP**: Door-open sensor.
- ■  **485+, 485-**: To lift control gateway, F01491 (4 relay module).

# 4.3 Technical Parameters

Power supply: 12Vdc
Standby current: 200mA
Working current: 500mA

Technical specifications of the display:
-Size: 4.3 inch
-Format: 4:3
-Resolution: 480*272

Camera pixel: 1.2 megapixels
90º visual angle: Vertical 72º, Horizontal 54º
Minimum illumination: 0.5Lux

Maximum conversation time: 120s
Door relay time: 1-9s
Door delay time: 0-9s
IC cards: 100,000
Face data: 6000

Operating temperature: -10~40℃
Relative humidity: 20%~80%, without condensation

**FCC Warning**

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.

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.