

USER MANUAL



Controller of Wall Mounted EVAC System

Model: VA-WFM

Before using the system, please read this manual carefully

Notification



WARNING

To ensure the reliability of the equipment and the safety of personnel, please observe the following when installing, using and maintaining:

- If any of the following conditions are found, please immediately turn off the power, plug out and quickly contact your nearest dealer. Do not continue using this unit, which may cause a fire or electric shock.
 - If you find smoke or have a strange taste from the machine.
 - If water or metal falls into the machine.
 - If the unit is dropped or the case is damaged.
 - If the wire is damaged (wire core exposure, broken wire, etc.).
- If the machine contains high-pressure parts, in order to avoid the fire or electric shock, absolutely don't open the case, if any questions please inform your nearest dealer.
- Do not place cups, bowls, vases or metal and other water-filled substances on the unit. Serious spilled liquid may cause a fire or electric shock.
- Never expose the unit to rain and any moisture or water, which may cause electric shock or fire.
- Do not place metal objects or flammable materials from the vents on the machine cover, nor place coins, which may cause fire or electric shock.
- Do not place heavy objects on the unit to avoid personal injury or property damage when the unit is slipping.
- Make sure that the volume is turned on at the beginning of the boot, and the high volume of the boot may cause hearing problems.
- Make sure that the volume is turned on at the beginning of the boot, and the high volume of the boot may cause hearing problems.
- For long-term accumulation of dust to be cleaned, please inform your dealer to regularly clean the machine, so as to avoid damage to the machine or cause a fire.
- The battery must be replaced with the same type of product and the correct installation should be made in order to avoid electrical damage and explosion hazard.
- The product is a Class III device. The device must be well connected to ground. The power plug must be connected to a power outlet with a grounding device to ensure that the equipment is fully grounded.

- This product uses a power plug or appliance input socket as a disconnecting device with the power supply, and must be disconnected if necessary for safety reasons.



- This equipment is only suitable for safe use at altitudes under 2000 meters.

Precautions

1. The installation environment

When installing the unit, in order to ensure the normal cooling of the host, should avoid the poor ventilation of the place or high temperature environment, to avoid direct sunlight.

Recommend to install cabinet or other well-ventilated place indoor. If you use the machine in the outdoors, please pay attention to waterproof, moisture, lightning protection measures.

Avoid installing in a violent place of vibration; do not place other equipment on the machine.

2. To avoid electric shock and fire

Do not touch the hands and the source with wet hands

Do not spill liquid on the machine, so as to avoid short-circuit or fire inside the machine.

Do not place other equipment directly on the top of the unit.

Non-professional service personnel Do not disassemble the unit yourself to avoid damage and electric shock.

3. Transport and handling

The packaging of the machine is designed and tested to ensure that the host will not be accidentally damaged during transport. It is best to use the original packaging when handling the unit.

Do not move the host device between the place or cold or over hot to avoid condensation inside the machine, affecting equipment life.

4. Please follow the warning instructions on this product, the warning signs on behalf of:

	Applicable to 2000 meters above sea level and below safe use
	Safe use only in non-tropical climates

5. Agreement

Please strictly follow the instructions in this manual. The software, hardware and appearance of this product will be upgraded and updated continually. The above changes will be made without notice.

Non-professional maintenance personnel, do not remove the product, to avoid damage and electric shock.

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1. Product Design Sketch



Fig 1-1 VA-WFM design sketch

2. Main Function Introduction

- Wall-mounted structural design;
- Paging to all zones in the system;
- Support fireman mic recording function;
- Support self detection in paging conflict status;
- Can display the EVAC/ALERT audio source status;
- Same priority of fireman mic and PTT mic;
- Support power supplied by 24V DC and network cable;
- Support max 4pcs fireman mics.

3. Main Technical parameters of the equipment

3.1 Electrical indicators

- ① Power supply
 - Voltage ~ DC 24V battery
 - 24V network port

3.2 Performance Indicators

- ① Analog audio
 - Mic. input
 - Sensitivity 5MV±0.5mV
 - Frequency response 200Hz~10kHz
 - Input impedance $\cong 1k\Omega$

- ② Communication
 - CAN interface
 - CAN interface of remote mic
 - Baud rate of 100bps
 - Support up to 4 fireman mic

- ③ Mechanical Indicators
 - Size (L×W×H) 260×200×100mm
 - Net weight 2.5Kg
 - Installation Wall mounted
 - Color Grey

- ④ Environmental Requirements
 - Operating temperature +5°C~ +40°C
 - Storage temperature -20°C ~ +70°C
 - Relative temperature <95%

4. Function instruction of front and rear panels

4.1 Function instruction of front panel

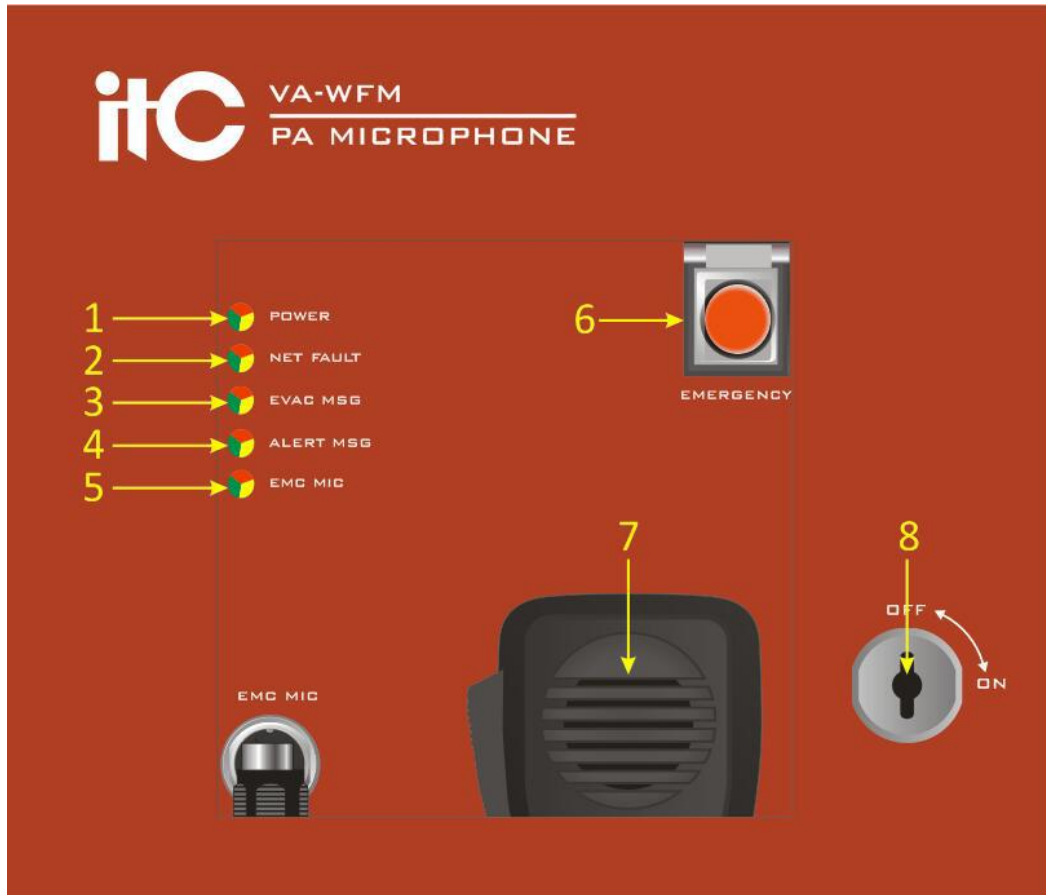


Fig 4-1 VA-WFM front panel sketch

- ① **DC POWER indicator light**
 - (1) Green: normal input voltage.
 - (2) Off: abnormal input voltage.
- ② **Network indicator light**
 - (1) Green: network is normal.
 - (2) Yellow: network fault.
- ③ **EVAC audio indicator light**
 - (1) Red: EVAC audio is playing.
 - (2) Yellow: EVAC audio fault.
 - (3) Off: no EVAC audio in the system.

④ **ALERT audio indicator light**

- (1) Red: ALERT audio is playing.
- (2) Yellow: ALERT audio fault.
- (3) Off: no ALERT audio in the system.

⑤ **PTT paging indicator light**

- (1) Green flashing: fireman mic warning tone is playing.
- (2) Red on: the local fireman mic is in PTT paging status.
- (3) Red flashing: other fireman mic is in PTT paging status.
- (4) Yellow on: PTT plug in fault.

⑥ **ENERGENCY**

Emergency broadcast button, press to select ALERT MSG or EVAC MSG to broadcast emergency voice message, EVAC MSG is prior to ALERT MSG, then press ENERGENCY button, to close the broadcast.

⑦ **PTT mic interface**

The PTT mic should be inserted to the interface before paging.

⑧ **Panel shell lock**

Open it when in use, and close it when not in use to prevent damage.

4.2 Function instruction of rear panel

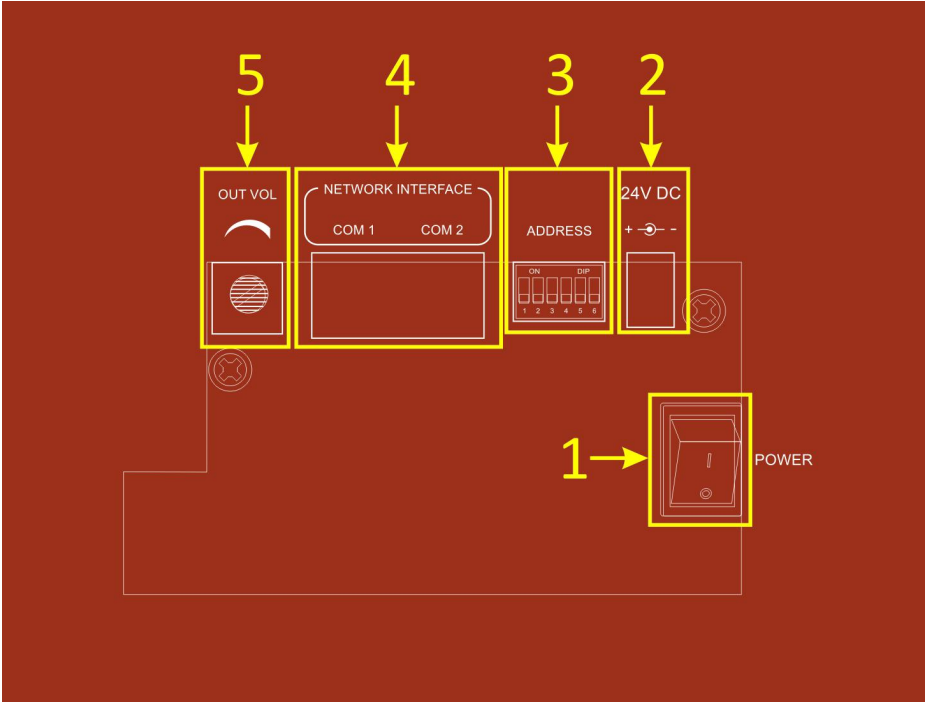
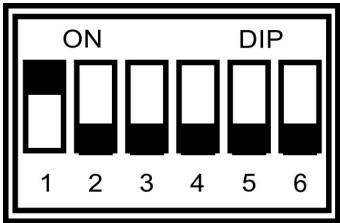


Fig 4-2 VA-WFM rear panel sketch

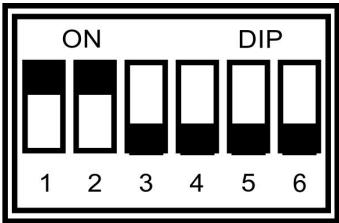
- ①Power switch
- ②DC 24V voltage input
- ③DIP switch setting (up:1 down:0)

PIN6: CAN communication matching resistance switch

PIN1~PIN5: address code setting, use binary code.



Address code 2



Address code 4

When DIP, the address code is 1

- ④CAN communication network port (can cascaded connect with the next mic)
- ⑤Mic output volume adjustment

5. Operation instruction

1. Emergency mode: When the system is in emergency mode (emergency button LED light flashes red), press the emergency button, the system exits emergency mode; when the system does not enter emergency mode (emergency button LED light is off), press the emergency button, the system enters into emergency mode.
2. PTT paging: When there is no other PTT paging in the system(the PTT indicator is off when there is no other PTT in the system, the PTT indicator flashes red when the PTT mic is working in the system), press the fire microphone PTT paging button starts the PTT paging, all the zones of the system will be opened, and the PTT mic warning tone will be played (the PTT indicator flashes green when the warning tone is played), and the PTT paging status is entered after the warning tone is played (When the PTT paging status is displayed, the PTT indicator light is steady red), when the PTT button is released, the system plays the PTT exit warning tone (the PTT indicator flashes green when the warning tone is played), after the warning tone is played, all The PTT zones are closed, the system will restored to play the audio before the PTT paging, and the PTT paging indicator is off.
3. Fault display:
 - ① Offline: The device network light is steady yellow;
 - ② Configuration error (the local address is not in the configuration): all LED lights of the device flash yellow;
 - ③ Address conflict: all LED lights of the device flash red;
 - ④ PTT fault: the PTT indicator is steady yellow;
 - ⑤ System EVAC fault: EVAC indicator light is steady yellow;
 - ⑥ System ALERT fault: ALERT indicator light is steady yellow.
4. Emergency audio status display:
 - ① EVAC audio source status display: When there is EVAC audio in the system, the EVAC indicator light of fireman mic is steady red; when there is no EVAC audio in the system, the EVAC indicator light is off;
 - ② ALERT audio status display: When there is ALERT audio in the system, the ALERT indicator light of fireman mic is steady red; when there is no ALERT audio in the system, the ALERT indicator light is off.

5. Power on self detection and system detection:

1. Power on self detection: When the device is powered on, the device will automatically initiate power-on self detection, the green, red and yellow lights will light up in turn, and the lights of each color will be on for about 3 second. After the self detection is finished, all The LED lights go out and the individual indicators continue to display their respective status;

2. System self detection: When the host and slave device press the system self-detection button, the host will initiate a system self detection. When the fireman mic receives the self-detection command, it enters the self-detection status, and the green, red and yellow three-color indicators light up in turn, each color is on for about 3 second. After the self-detection is finished, all the LEDs are off, and each indicator continues to display its respective status.

Note:

1. Be sure to connect the adapter when using the device to prevent system fault when the device is powered on.

2. When installing the equipment, please remove the four feet on the back; the chassis needs to be grounding connected.

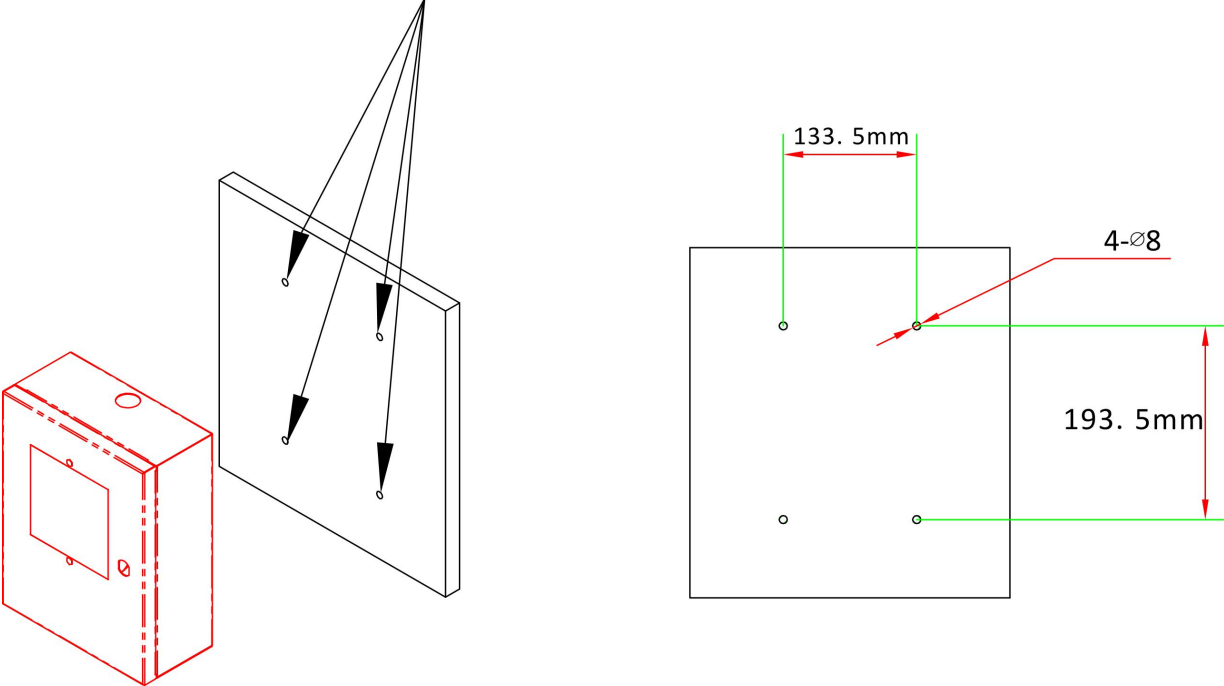
Appendix:

DIP Switch Setting:

DIP Switch Setting: (Up:1 Down:0)					
PIN1	PIN2	PIN3	PIN4	PIN5	MIC_ADDR
0	0	0	0	0	1
1	0	0	0	0	2
0	1	0	0	0	3
1	1	0	0	0	4

6. Product Installation diagram

The wall is opened according to the size marked on the side,
Insert the 8 gauge rubber column into the hole position,
Then use 4 self-tapping screws to fix the box.



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