DT80 VOIP paging intercom system

DT801

DT802

DT812

DT803

Products description and application

It is suitable for industries such as ports, ships, power plants, steel plants, railway tunnels, pipe corridors, etc., especially in places with severe interference and harsh environment.

Main functions and features

- Using digital network audio technology, strong anti-interference ability.
- Dial by number keys, can call any stations, and realize full-duplex handset conversation or hands-free conversation.
- High-definition voice, the system supports the international standard G.722 broadband voice coding, combined with the unique echo cancellation technology, the experience is better than traditional coding.
- Smart DSS keys can be set, including function keys, hands-free keys
- The system can be expanded, and 20 ~ 2000 telephones can be configured according to customer needs
- The network node is highly expandable, and in combination with the customer's application site, it can provide communication methods in the form of optical fiber and network cable (RJ45).
- The system takes standard SIP protocol as the core, supports third-party device access, and can interconnect with mainstream IP communication systems and telecommunications operator IMS systems.
- Provide an end-to-end overall solution, configure the corresponding system capacity and terminal equipment with suitable interfaces according to specific project needs, and tailor a communication system for customers

General Specifications

Rated voltage	100-240VAC/ DC24*	Body material	DT801(ABS); DT802/ DT812 (PC/ABS); DT803(Cold rolled sheet);
Built-in speaker	3W/4Ω	Operating temperature	-30℃~+70℃
Paging volume	←110dB (external connected loud speaker)	Relative humidity	10%~95% (Non-condensing)
Communication method	Handset communication / hands free communication / Paging	IP rate	DT801(Indoor); DT802/ DT812 (Outdoor IP65); DT803(Indoor);
		Weight	DT801(1.9Kg); DT802/ DT812 (3.9Kg); DT803(4.9Kg);

DT801 Indoor Station		**DT802 Outdoor Station**	
Model	Name	Model	Name
DT801A	Optici Fiber Interface Indoor Station	DT802A	Optici Fiber Interface Indoor Station
DT801B	Network Cable Interface Indoor Station	DT802B	Network Cable Interface Indoor Station
DT801C	Indoor telephone for elevator		
DT812 Outdoor Station with alarm		**DT803 Cabin Station**	
Model	Name	Model	Name
DT812A	Optici Fiber Interface Indoor Station	DT803A	Optici Fiber Interface Indoor Station
DT812B	Network Cable Interface Indoor Station	DT803B	Network Cable Interface Indoor Station

Remark: 1. The indoor station DT801C dedicated to the lift works at DC24V
2. The cabin station DT803 can be equipped with gooseneck microphone or pedal switch

Features instruction

• DT801 Indoor Station
The built-in 3W speaker can be used for broadcasting calls in a small-range and low-noise environment. An external YH102A (8Ω 10W) horn speaker can be selected according to needs. Hands-free and broadcast calls can be made through buttons and handles;
• DT802,DT812 Outdoor Station
The built-in 3W speaker can be used for broadcasting calls in a small-range and low-noise environment. An external YH102A (8Ω 10W) horn speaker can be selected according to needs. Hands-free and broadcast calls can be made through buttons and handle（The difference between DT802 and DT812: DT802 has no call alert function）
• DT803 Outdoor Station
The built-in 5W speaker can be used for broadcasting calls in a small range and low noise environment. The external YH102A (8Ω 10W) horn speaker can be selected as required, and the driver can also control the gooseneck microphone through the buttons or foot switch to make a call。

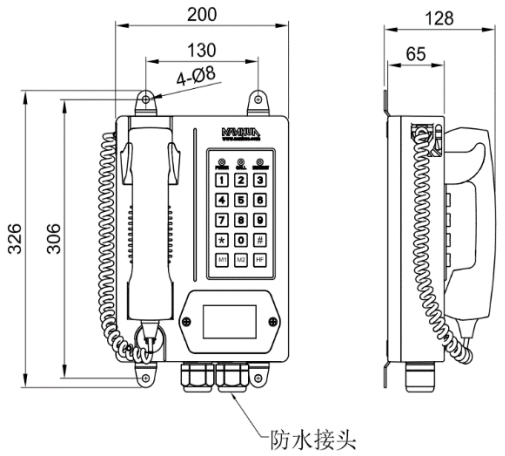
Instructions for use (refer to DT80 manual for details)
• After all telephone connections are completed and registered, the registered phones can talk to each other. The registration status is normal and the Call indicator is long on, indicating that the telephone communication status is good
• If the Call indicator is steady on, dial a call, and if the other party's phone has an automatic hands-free function, you can talk directly, otherwise you must pick up the phone or press the hands-free key to make a call.
• The keys M1, M2 can be defined as speed dial numbers, and can be dialed to the set telephone terminal or group call number with one key

Working status indicator
• Power indicator “Power”: green, the power supply is normally on;
• Communication status indicator “Call”: Green, the phone has been registered, that is, you can talk, the green light is on;
• Off-hook indicator “Broadcast”: Green, the green light is steady on when on-hook, and the green light is off when off-hook;

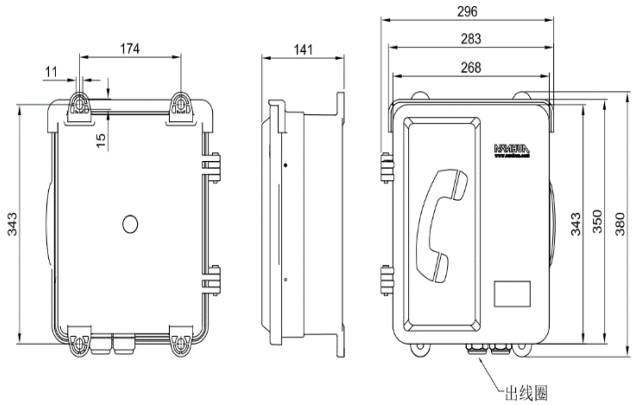
Volume adjustment
• Remove the phone cover, the volume adjustment potentiometer can be seen, use a small screwdriver to adjust the volume button;
• Clockwise volume gradually increases, and counterclockwise volume gradually decreases;

Mounting dimensions

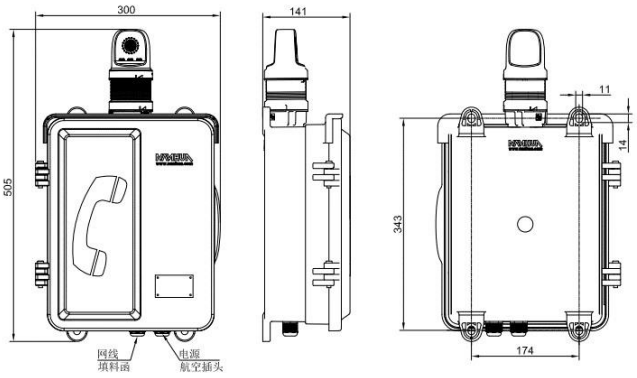
DT801



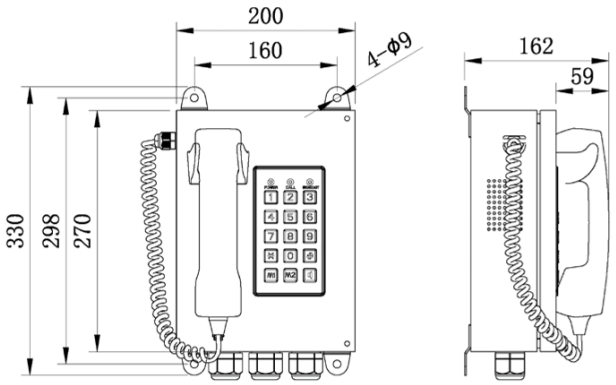
DT802



DT812



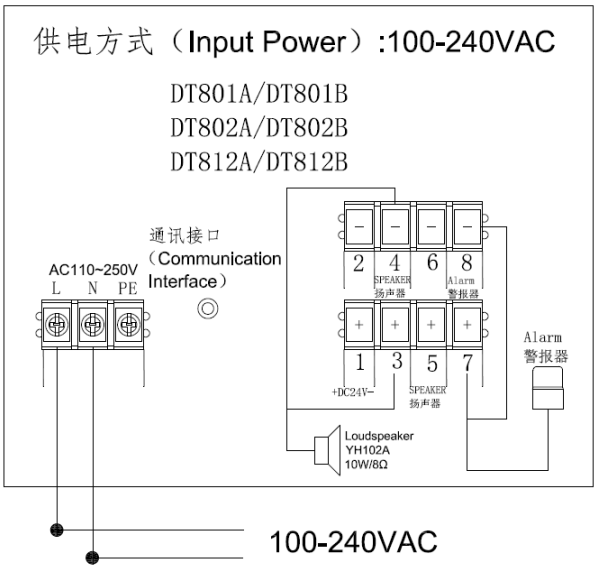
DT803

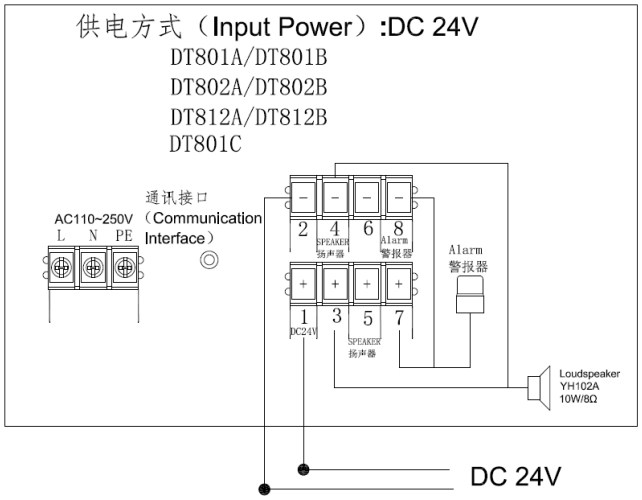


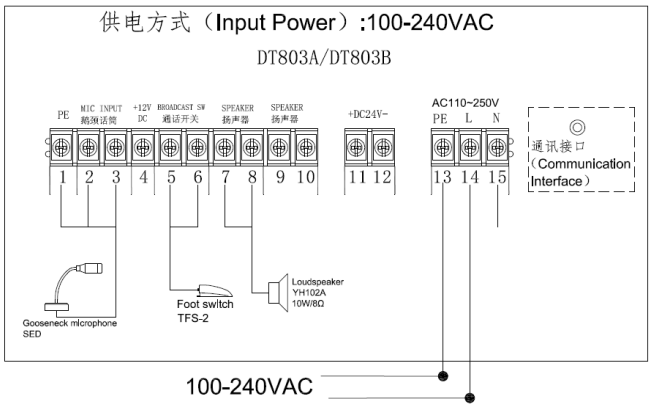
Installation:
1Please confirm the flatness of the installation surface before installation. It is recommended to fix the top two screws first, and then adjust the two bottom mounting feet according to the flatness of the installation surface.

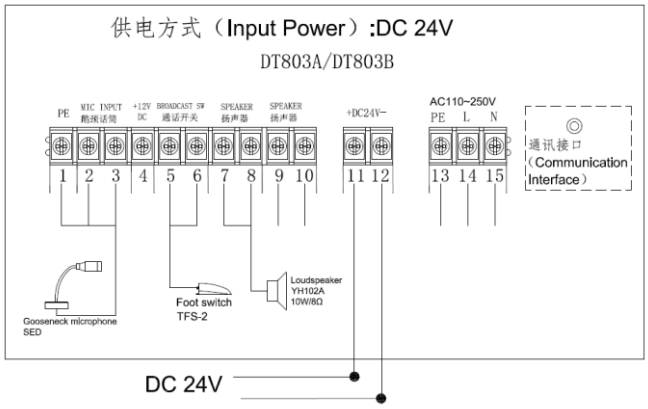
Remark: It is recommended to add a rubber gasket to correct the fill during installation, so as to avoid the deformation of the chassis due to the uneven installation surface, which affects the use, especially the normal closing of the outdoor chassis cover, affecting the protection level;

Wiring diagram





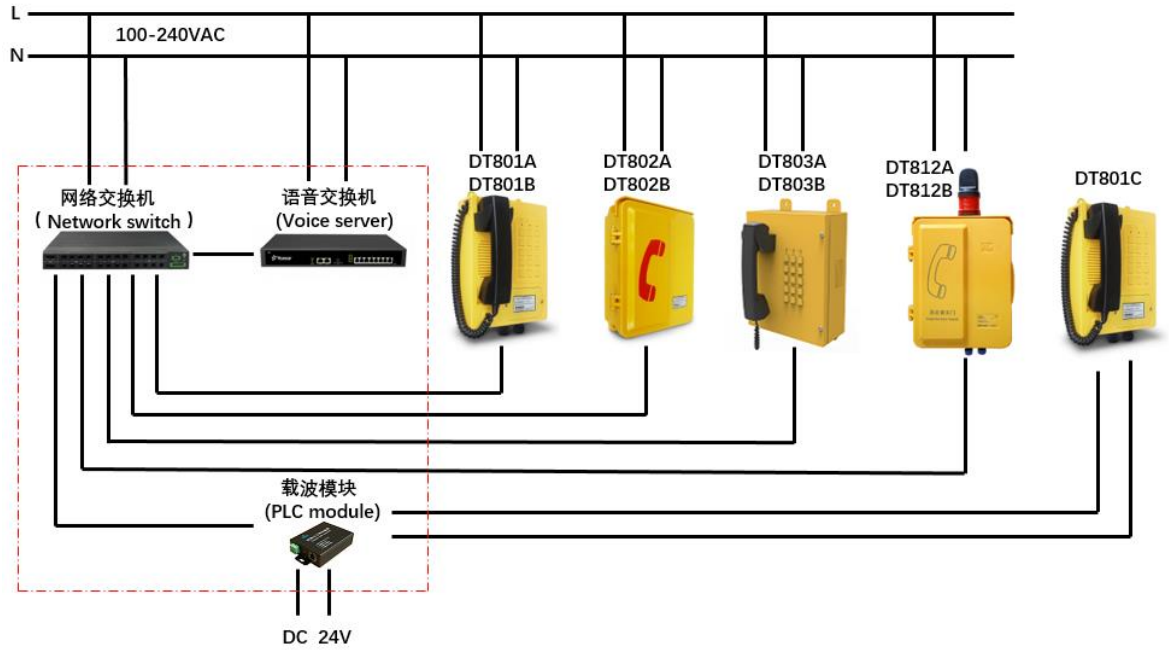




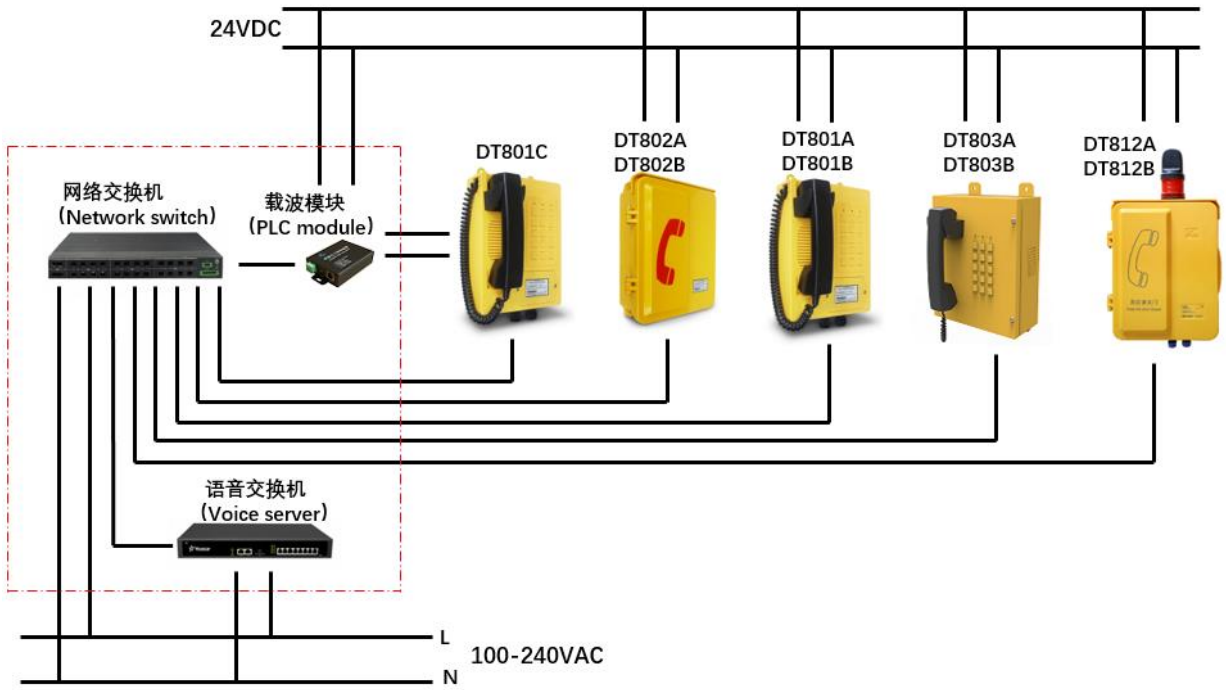
Wiring connection

1. The system adopts network cable of more than five categories, AC power supply 1.5mm2, DC power supply 2.5mm2 or more, and the optical fiber is selected according to the telephone communication method;
2. DT801, DT802 and DT812, according to different communication types and different power supply methods, DC power supply is directly connected to the DC24V interface; AC power supply is connected to the L, N, PE interface, and the internal wiring of the DC interface has been connected. DT812 also has a ringing alarm interface, as shown below 7, 8, the wiring is completed before leaving the factory.
3. The DT803 wiring board is in a metal chassis, the microphone should use shielded wire and connect the shielding layer correctly, otherwise it may affect the quality of the call (refer to the wiring diagram for details);
4. The communication interface is connected to RJ45 or optical fiber. L, N, PE are not wired in DC power supply mode, and the external power supply is directly connected to the positive and negative poles of DC24; AC power supply mode is powered by connecting L, N, PE, DC24V interface 1, 2, The line is connected, the speaker interfaces 3, 4 and 5, 6 are connected to external speakers, 7 and 8 are connected to external alarms, and the warning lights have been connected inside the DT812A and DT812B. The warning lights flash when ringing.
5. The DT801C is connected to the DC24V and the other end is connected to the DC carrier module. It cannot be connected to the DC24V power supply alone, otherwise it will not be able to communicate. Communication is normal. The Call indicator is steady on. The RJ45 interface is already connected inside. As shown below, the DT801C wiring diagram DC24V connects the positive and negative poles of the carrier module DC24.

AC wiring diagram



DC wiring diagram:



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