

MAG206FD

Explosion-Proof Networked Industrial Intercom Terminal



Description

The MAG206FD is a flameproof, waterproof, and dustproof analog-to-digital conversion device operating on an embedded Linux system, providing stable and reliable performance. It features a built-in 3W speaker and microphone, supporting hands-free communication, broadcast reception, and live monitoring. With integrated echo cancellation and howling suppression algorithms, it effectively prevents acoustic feedback and intercom echo. The device supports one short-circuit trigger input, allowing an external alarm button to activate preset audio sources on the server for linked broadcast triggering. It also provides one short-circuit output for controlling other devices in emergency situations. The unit adopts a minimalist appearance with a screw-hidden design, ensuring a cleaner and more aesthetic panel. With high operating efficiency, it is suitable for a wide range of application scenarios.

Features

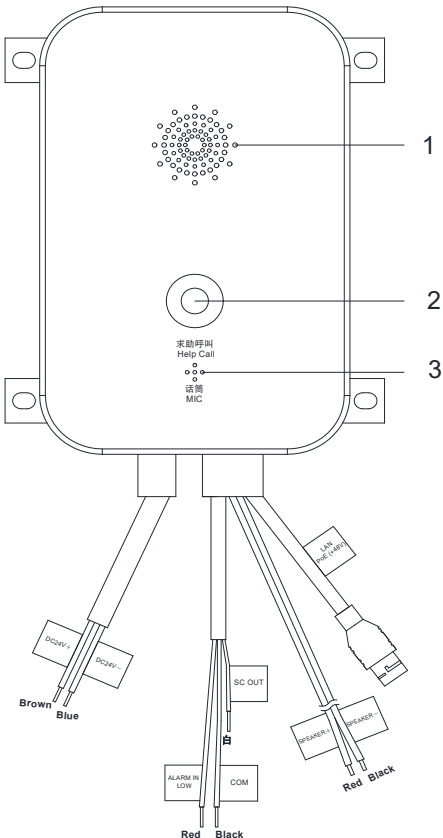
- Runs on an embedded Linux operating system, providing stable and reliable 7×24 continuous operation.
- Features a minimalist appearance with a screw-concealed panel design for a cleaner and more aesthetic look.
- Single-key design (with call target pre-configured on the server) enabling full-duplex intercom with the paging station.
- Capable of playing background music, scheduled broadcasts, emergency paging, and alarm signals from the system host.
- Supports the standard SIP communication protocol and can connect to customer SIP telephone systems, enabling remote paging and full-duplex intercom with mobile phones and SIP phones.
- Equipped with a 3W speaker and microphone, supporting hands-free communication, broadcast reception, and live monitoring.

- Incorporates echo cancellation and howling suppression algorithms to effectively prevent acoustic feedback and intercom echo.
- Supports one short-circuit trigger input for connecting an external alarm button to activate preset audio sources on the server for linked broadcast triggering.
- Supports one short-circuit output for controlling external devices during emergencies.
- Supports both PoE and DC power supply.
- Supports web-based configuration of SIP parameters.
- External amplifier output power: 15W/8Ω via PoE digital amplifier, 30W/4Ω via DC supply.
- Industrial-grade explosion-proof design: waterproof, dustproof, explosion-proof, rugged and durable, with good sealing.

Specifications

Model		MAG206FD
Network Output	Input Sensitivity	-10dB
	Frequency Response	20Hz-20kHz
	Distortion	≤0.43%
	Signal-to-Noise Ratio	≥75 dB
Maximum Amplifier Output Power	DC Power Mode	30W 4Ω
	PoE Power Mode	15W 8Ω
Package Dimensions (L×W×H)		415×320×155mm
Unit Dimensions (L×W×H)		251×163.5×78mm
Gross Weight		4.1kg
Net Weight		3.85kg

Front / Rear Panel



1. Built-in Speaker
 2. Emergency Call button
 3. Built-in Microphone
- Used for voice input during emergency intercom calls.

Wiring Description	
LAN (PoE +48V)	PoE input port, connected to a PoE 802.3at port
SC OUT	Short-circuit trigger output
COM	Ground wire
ALARM IN LOW	Alarm input interface
DC24V-	Negative power input
DC24V+	Positive power input
SPEAKER+	Positive speaker output
SPEAKER-	Negative speaker output