

# MAG6416II

## 32-Channel Fire Connection Module



### Description

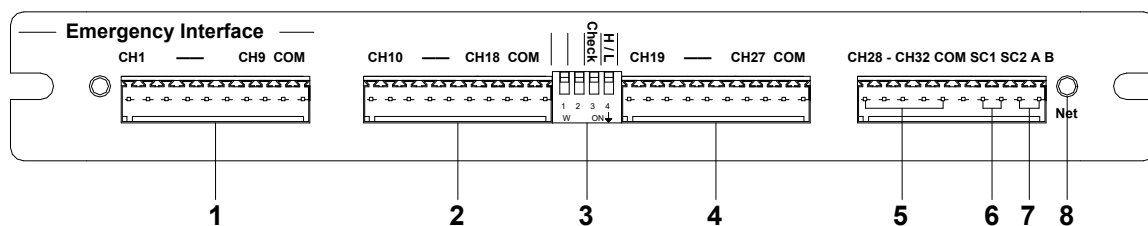
MAG6416II 32-channel fire connection module is the interface between network PA system and fire center. When receiving the alarm signal sent by the fire center, it will activate the DSPPA network PA system corresponding working area automatically and enter the override status of the emergency broadcasting. Each machine has 32 fire trigger channels, and each channel alarm zone can be any combination through the host setting. Each alarm channel includes routing fault detection function, and can troubleshooting system line automatically. The same system can have multiple machines connected to the network, and can extend control area at random.

### Features

- This module is the interface between network PA system and fire center.;
- When receiving the alarm signal sent by the fire center, it will activate the network PA system corresponding working area automatically and enter the override status of the emergency broadcasting;
- Each machine has 32 fire trigger channels, and each channel alarm zone can be any combination through the host setting;
- Each alarm channel includes routing fault detection function, and can troubleshooting system line automatically;
- The same system can have multiple machines connected to the network, and can extend control area at random.

### Specifications

Model	MAG6416II
Package Dimension	190×40×230mm
Machine Dimension	173×23×210mm
Gross Weight	1.5kg
Net Weight	1.0kg



## 1. Alarm signal input interface

CH1-CH9, channel 1 to channel 9 for alarm signal input interface, COM for common terminal

## 2. Alarm signal input interface

CH10-CH18, 10 channel to 18 channel for alarm signal input interface, COM for common terminal

## 3. Dip switch

Check: Line detection enable to switch. The machine has a 32-channel line fault detection function, dial the switch to open the line detection (channel independent switch setting refer to the fourth section "fire channel line detection function configuration"). If you want to use line detection, the channel which needed to open the line detection need to need to configure the 47K pull-down resistor box.

Note: The relatively long sound of the module indicates that the external line is not connected, while the hush sound indicates the alarm sound.

H / L: When the input logic setting switch is set to H, it is the level trigger mode; when the setting switch is set to L, it is short-circuit trigger mode.

## 4. Alarm signal input interface

CH19-CH27, 19-channel to 27-channel alarm signal input interface, COM is common.

## 5. Alarm signal input interface

CH28-CH32, 28-channel to 32-channel alarm signal input interface, COM is common.

**Note: Alarm signal input interface can be input with a positive polarity signal of 5V-24V or the short circuit signal of 0Ω-5K impedance.**

## 6. SC1、SC2 short circuit output

As long as there is an alarm signal input (any one or more), SC1, SC2 short circuit output.

## 7. 485 communication interface

A, B for the RS485 communication interface. It can be used to communicate with other third party systems to implement alarm triggers (using this function has to contact our technical staff).

485 protocol format:

Frame header + source address + destination address + frame number + length + function code + data + check code

The header is FE FC

Source address, destination address, frame number, function code for 1 byte, length, check code for 2 bytes, higher one is in front and the length does not contain the header

The generator polynomial of the CRC check is:  $X^{16} + X^{15} + X^2 + 1$

The address of this alarm module is: 0xFE

Function code meaning:

0x66 set all zones alarm, followed by 32 bytes of data, data 0 indicating that the alarm revoked, 1 for alarm

0x67 set a single zone alarm, followed by a byte channel number and a byte of state data, channel number 0-31 for 1-32 channel, the alarm state values are the same as above.

## 8. Network indicator

When the module drops the indicator lights green; when the module is connected successfully via the network, the indicator lights red.