

# Fire Alarm Control Panel



## Characteristics

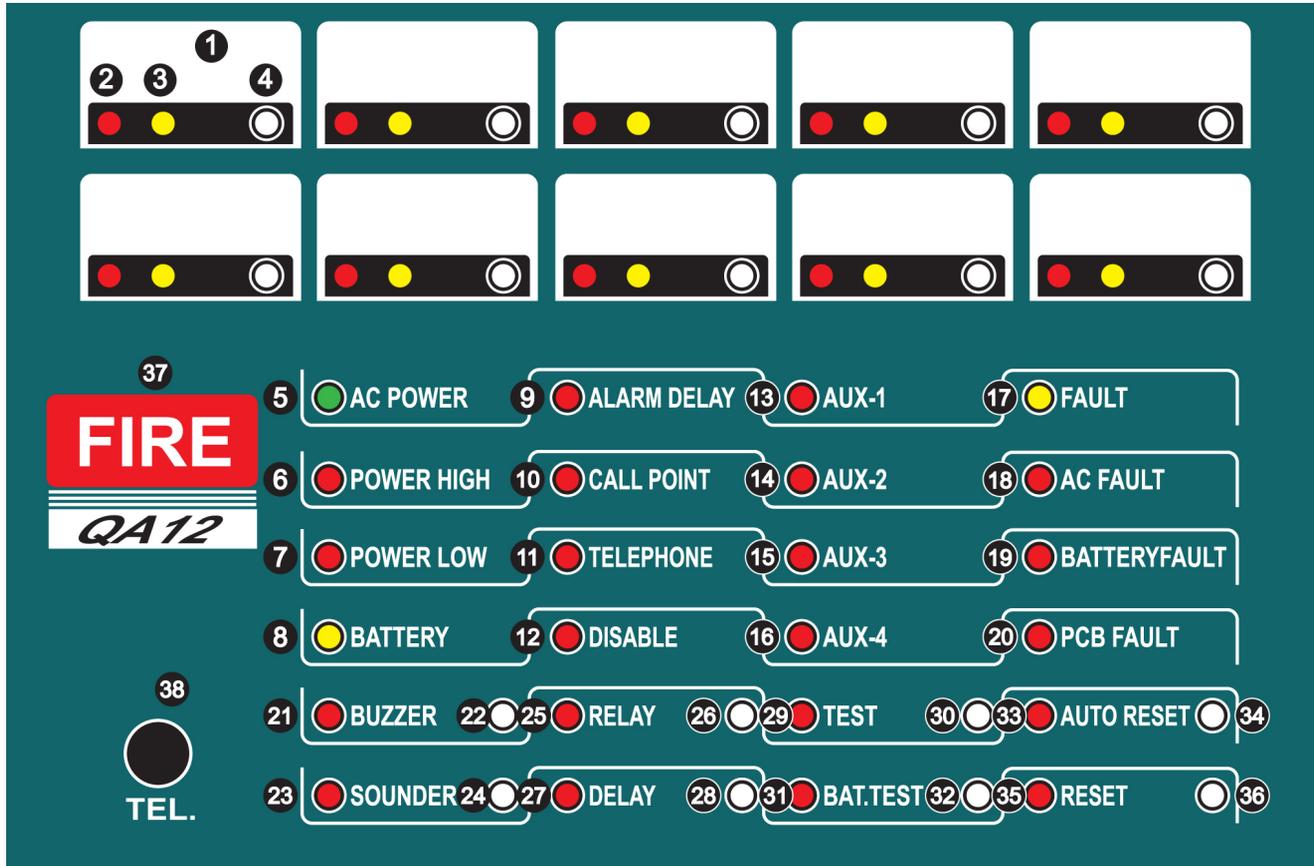
- ◆ Alarm verification up to 7 seconds for real fire confirmation and avoid false alarm form environment interference.
- ◆ Zone test mode to perform alarm and fault functional test.
- ◆ Each zone has a separate disable function.
- ◆ Fault indications for wire disconnection, unstable AC power, battery short circuit or disconnection and internal PCB unplug.
- ◆ 5-QA12 only 1 up to 5 zone detector
- ◆ QA12 could 10 up to 80 zone detector

## Specification

Model	5-QA12	QA12
Power	220V AC, 50/60HZ *Others also available	
Battery Capacity	24V/4Ah	
Charging voltage & current	28VDC 100mA ~ 400mA	
Loop voltage & current	24VDC; short circuit under 5V	
External resistance	Max.50Ω	
# of heat detectors connected	30 / zone Except electronic - type (Horing Lih Product) 30 / zone Except Mechanical - type (Horing Lih Product)	
# of smoke detectors connected	30 / zone (Horing Lih Product)	
# of fire indicating lamp connected	# of zone x 1.5	
# of bell connected	# of zone x 1.5	
Relay output	Contact rating (24 VDC 3A)	
End of Line Resistor	10kΩ *One per zone	
Material	1.2 mm steel plate	
Color	Pearl gray *Others also available	
Dimensions (mm) H x W x D	5 zone : 320 x 250 x 100	10 zone : 450 x 330 x 130 20 zone : 550 x 330 x 130 30 zone : 680 x 380 x 150 40 / 50 zone : 950 x 420 x 150 60 ~ 80 zone : 1300 x 420 x 170

**System Control and Indicator On Board**

**QA12**



**QA12 Indicators and Switches Description : 10 ~ 80 Zone Detector**

- |                                |                          |                    |                        |
|--------------------------------|--------------------------|--------------------|------------------------|
| ① Zone Label                   | ⑩ Call Point LED(Red)    | ⑫ Buzzer Switch    | ⑬ Batter Test LED(Red) |
| ② Zone Fire Indicator(Red)     | ⑪ Telephone LED(Red)     | ⑭ Sounder LED(Red) | ⑮ Batter Test Switch   |
| ③ Zone Fault Indicator(Yellow) | ⑫ Disable LED(Red)       | ⑯ Sounder Switch   | ⑰ Auto Reset LED(Red)  |
| ④ Zone Switch                  | ⑬ ⑭ ⑮ ⑯ Aux-1~4 LED(Red) | ⑰ Relay LED(Red)   | ⑱ Auto Reset Switch    |
| ⑤ AC Power LED(Green)          | ⑰ Fault LED(Yellow)      | ⑲ Relay Switch     | ⑳ Reset LED(Red)       |
| ⑥ Power High LED(Red)          | ⑱ AC Fault LED(Red)      | ⑳ Delay LED(Red)   | ㉑ Reset Switch         |
| ⑦ Power Low LED(Red)           | ⑲ Battery Fault LED(Red) | ㉒ Delay Switch     | ㉓ FIRE Indicator       |
| ⑧ Battery LED(Yellow)          | ㉒ PCB Fault LED(Red)     | ㉓ Test LED(Red)    | ㉔ Telephone Jack       |
| ⑨ Alarm Delay LED(Red)         | ㉓ Buzzer LED(Red)        | ㉔ Test Switch      |                        |

## QA12 Indicators and Switches Description :

- ① Zone Label : To show the name of covered area.
- ② Zone Fire Indicator : Steady light ON means Fire status, flash light ON means Disable status.
- ③ Zone fault Indicator : Light ON means that circuit has trouble.
- ④ Zone switch : 1. To disable zone output function when Fire is detected.  
2. To perform Zone Fire Test and Zone Fault Test.
- ⑤ AC Power LED : Light ON means panel working voltage is normal.
- ⑥ Power High LED : Light ON means panel working voltage is 10% higher than the nominal voltage. Meantime the Fault LED will light ON and panel buzzer will sound.
- ⑦ Power Low LED : Light ON means panel working voltage is 10% lower than the nominal voltage. Meantime the Fault LED will light ON and panel buzzer will sound.
- ⑧ Battery LED : Light On means panel working voltage is supplied by battery only. Meantime the Fault LED will light ON and panel buzzer will sound.
- ⑨ Alarm Delay LED : Light ON means panel is reconfirming the alarm signal from detector, LED light will OFF after 7 seconds confirmation.
- ⑩ Call Point LED : When panel receives signal from manual call point, this LED and Delay LED will both light ON. Panel will active without delay.
- ⑪ Telephone LED : When panel receives incoming call signal, LED will ON and buzzer will active.
- ⑫ Disable LED : Indicates any zone output is disabled.
- ⑬ ⑭ ⑮ ⑯ Aux1~4 LED : When panel receives external monitoring signal, LED will ON and buzzer will active.
- ⑰ Fault LED : When loop has short, open or terminal trouble, LED will light ON and flash.
- ⑱ AC Fault LED : A yellow light indicates the a break in the AC power supply.
- ⑲ Battery Fault LED : A yellow light indicates short circuit or wire-break in the Panel's battery wires.
- ⑳ PCB Fault LED : A yellow light indicates a circuit board has become disconnected.
- ㉑ Buzzer LED : 1. (temporary silence - LED steady ON)
- ㉒ Buzzer switch : When press switch once, LED ON and disable the sounder output, any new incoming fire or fault signal will enable the buzzer and LED will OFF.  
2. (long silence - LED flash)  
When press switch twice, LED flash and disable the buzzer output, any new incoming fire or fault signal will not enable the buzzer.  
3. (normal)  
When press switch three times, panel will back to normal status.

## QA12 Indicators and Switches Description :

- ②3 Sounder LED : 1. (silence)
- ②4 Sounder switch : When press switch once, LED ON and disable the sounder output.  
2. (normal)  
When press switch twice, panel will back to normal status.
- ②5 Relay LED : LED ON indicates relay output from panel is disabled.
- ②6 Relay switch : Pressing this switch will disable the fire and fault relay output.
- ②7 Delay LED : LED ON indicates the alarm delay feature is disabled.
- ②8 Delay switch : Pressing this switch will disable any alarm delay.
- ②9 Test LED : 1. (fault test - LED flash)
- ③0 Test switch : When panel is under manual test mode, press the switch twice to lit the LED and into Zone Fault test, press each zone switch to show the fault indication and related output.  
2. (fire test - LED steady ON)  
When panel is under manual test mode, press the switch once to light the LED into Zone fire test. Press each Zone switch, both Zone Fire Indicator and Alarm Delay LED will be lit on 7 seconds and then the Reset LED flashed 5 seconds. Following press each Zone switch again to show the fire indication and related output.  
3. (normal)  
When press the switch three times, panel will back to normal status.  
**\*\*Note : Any Fire happen during test period, system will automatically into [Fire mode].**
- ③1 Battery Test LED : LED ON indicates panel is under battery test status.
- ③2 Battery test switch : Pressing this switch to test the back-up battery.
- ③3 Auto Reset LED : LED ON indicates it is under auto reset mode, this feature is for one man walk test.
- ③4 Auto Reset switch : Pressing this switch will display auto reset mode.
- ③5 Reset LED : LED ON indicates it is under reset mode.
- ③6 Reset switch : Pressing this switch resets the panel, LED lights ON for 5 seconds and then returns to normal status.
- ③7 FIRE indicator : When the panel has received a fire signal , the LED will light ON and flash.
- ③8 Telephone Jack : To communicate with the manual call point's plugged phone.