2/4/8/16 Zone Conventional Smoke Alarm Panel For Fire Detection Fire Safety System

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: XHA
- Certification: CE
- Model Number: XHA1002
- Minimum Order Quantity: 4PCS
- Price: negotiable
- Packaging Details: 465*405*285mm
- Delivery Time: 3 Working days
- Payment Terms: T/T, Western Union
- Supply Ability: 500pcs/month

Product Specification

- Type: Conventional Fire Alarm Controller
- Power Supply: AC90-270V | Customized Request
- Connected: 2/4/8/16 Zone
- Installation: Wall Mounted
- Types Of Smoke Detectors: Photoelectric Smoke Detector
- Certification: EN54 Certification
- Highlight: **8 Zone Smoke Alarm Panel,**
                            16 Zone Smoke Alarm Panel,
                            Conventional Smoke Alarm Panel

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Introduction

A conventional fire alarm control panel (FACP), is a central component of a basic fire alarm system. It is responsible for monitoring and controlling the various devices connected to the system, such as smoke detectors, heat detectors, and manual pull stations.

Purpose and Function:
The primary function of a conventional alarm panel is to receive signals from the connected fire detection devices and to initiate the appropriate response, such as activating audible and visual alarms, notifying emergency services, and controlling building systems (e.g., HVAC, elevators).
Conventional alarm panels are designed to provide a straightforward and reliable means of monitoring and managing a basic fire alarm system.

System Architecture:
Conventional alarm panels are typically wired to a series of detection devices, such as smoke detectors and heat detectors, which are connected to the panel using a dedicated circuit or "zone."
Each zone on the conventional panel represents a specific area or location within the protected building or facility.
When a detection device on a particular zone is activated, the alarm panel identifies the source of the alarm and responds accordingly.

User Interface:
Conventional alarm panels often feature a simple user interface, typically including indicator lights, control buttons, and possibly a small display screen.
These controls allow operators to view the status of the system, acknowledge alarms, silence audible signals, and reset the system after an event.
The panel's interface is designed to be intuitive and easy to use, especially in emergency situations.

Power Supply:
Conventional alarm panels are typically powered by the building's main electrical system, with a secondary power source (e.g., backup battery) to ensure continued operation in the event of a power failure.
The backup power source is essential to maintain the panel's functionality and the fire alarm system's reliability during an emergency.

Expandability and Integration:
Conventional alarm panels are generally designed for smaller, less complex fire alarm systems, with a limited

number of zones and connected devices.
While they can often be expanded to accommodate additional zones or devices, they may lack the advanced features and integration capabilities found in more sophisticated addressable fire alarm control panels. Conventional alarm panels provide a straightforward and reliable solution for basic fire alarm systems, particularly in smaller buildings or facilities where a more complex system may not be necessary. They play a crucial role in the early detection and notification of fire emergencies, helping to protect lives and property.

Product Features

4,8,16 Class B Initiating Device Circuits (IDCs).
. All zones accept conventional detectors and any normally open contact device.
. Four Class B Notification Appliance Circuits (NACs).
. One Form-A Alarm Relay.
. One Form-A Fault Relay.
. One Form-A Supervisory Relay
. 3.0 amps ofsystem power.
. Max 30 conventional detectors in one zone.
. Auto/Manual mode setting enable.
. Each Zone can be disabled.
. Sound output can be disabled.
. Manual active sound output enabled.
. Able to report short and broken circuit
of detection zones.
. Designed with standby batteries and space provision for 1 sealed lead- acid batteries
Evacuate,Testing and disable functions.
. Remote reset and silence alarm functions
. Can conneet max 32 repeater panels by RS485 communication port
. Dimensions :14.57"(37 cm) long X 17.32"(44 cm) high X 3.94"(10cm)
. Weight: 6.6kg (without battery)

Specification

Primary AC	120VAC 50/60 Hz Power supply rating
	240VAC 50/60 Hz
Power supply rating	2 Amps @ 24VDC
Maximum Battery Charging Current	0.98 Amps @ 26VDC
Initiating Device Circuits 2 Zones	Alarm Zone 2
Normal Initiating Operating Voltage	23VDC, Maximum 26VDC, regulated
Normal Quiescent Current (normal status)	<50mA
Alarm Current (not include the others)	<150 mA
Short Circuit Initiating Current (per zone)	35mA Maximum
Maximum Initiating Resistance (per zone)	10 ohms
Initiating End-of-Line Resistor	4K7 ohms, 1/2W 5%
Standby Detector Current (per zone)	4mA maximum
Maximum Detector Count (per zone)	30 detectors
Initiating Cabling Type	18AWG Twisted Shielded pair (14 – 18 AWG)
Detector Base Impedance	430 ohms
Notification Appliance Circuits	1 NACs, Special Application
Maximum NAC Current Rating	1 Amp maximum per circuit
NAC Operating Voltage	26VDC Nominal, 30VDC Maximum
NAC End-of-line Resistor	1N4007 Diode
FAULT Relay rating	2A & 30VAC, resistive
Alarm(Auxiliary) Relay rating	2A & 30VAC, resistive
Master alarm panel	Digital & LED display
Slave alarm panel	LED display only

Product range

Conventional Fire Alarm System
Addressable fire alarm system
Gas Extinguishing control system

Beam Detector
Standalone smoke detectors and combustable gas detector
4 wire smoke detectors with relay output.
2 wire Conventional smoke and heat detectors
Explosion-proof flame detector for fire alarm system

Service

1. OEM &ODM service.
2. Provide technical support and after-sale service.
3. 1 year warranty.
4. Normally 15 working days lead time.
5. Welcome sample order.