

**EXPERT IN SAFETY AND
SECURITY TECHNOLOGY**



Addressable Fire Alarm System Product Range Guide



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CONTENTS

Addressable Fire Alarm System

Addressable Fire Alarm Control Panel 1 Loop
Addressable Fire Alarm Control Panel 2 Loop
Addressable Fire Alarm Control Panel 4 Loop

Addressable Fire Alarm Repeater Panel

Addressable Smoke Detector
Addressable Heat Detector
Addressable Smoke & Heat Detector

Addressable Manual Call Point
Addressable Sound Strobe

Address Programmer

Addressable Input Module
Addressable Output Module
Gas Alarm Control Panel
Loop Isolator Module

ZOANCO SECURITY TECHNOLOGY

Over the past twenty years, We have always been dedicated to serving the diverse needs of our customers. Although we started out as a tiny engineering and manufacturing company in China and have grown into a global player in the international safety market, Zoanco continues to work hard to earn your trust and retain your confidence in our product line.

Zoanco manufactures thousands of uniquely made smoke, heat and gas detectors annually, fulfilling a special role or function for each of our customers. Zoanco can custom-design detectors specifically for your applications. From product design to final manufacturing, we offer one-stop shopping for your residential and commercial detector needs. Any one of our existing product designs can also be modified to meet your specific requirements. In a "one-size-fits-all" world, Zoanco works harder to tailor our solutions to meet your needs.

Smoke, heat, and gas detector manufacturing isn't an easy business to be in. Faced with the stiff competition from cheaply made, low-quality detectors, we remain committed to our customers with high quality products at the most reasonable prices.

Our focus is to deliver meaningful value to clients that choose our brand over the competition through our commitment to quality. This year we are preparing to introduce our new line of advanced, feature-rich conventional and addressable detectors and panels at a competitive price.

We invite you to get to know Zoanco better. Experience the very best in smoke detector technology. We are convinced that you will find Zoanco superior to any other detector company in China. You'll see it in our facilities, in our people, and in the products that Zoanco makes. It's our uncommon commitment to excellence and quality, and to the automation and productivity of our customers.

Addressable Fire Alarm Control Panel

1 Loop Fire Alarm Control Panel Model: TC5160



The panel is an addressable fire detection and indication control panel designed to meet all the requirements of EN54. Certificate EN541-2/4
Modular type panel, 1 Loop Panel 64/128/192/255 addresses
non-polarity alarm linkage and totally hashed detector and module addresses
non-polarity alarm linkage and totally hashed detector and module addresses
It can Set up the detector Normal/Sensitive/Insensitive
It can connected with floor fire display panel by RS-485 bus
It multi-line and bus linkage control unit to control and monitor important equipment.
It has a super long circuit bus that has a total bus length of up to 2000m.
It can be connected to a special mini-printer to realize real-time printing
Mains supply:AC220V (3A),Voltage range: +10%~-15%
Backup battery:DC24V (6A),12V/12AH sealed lead acid battery
LCD screen size: 4.3-inch color LCD screen
Operating Environment:Temperature: 0°C~+40°C;
Relative Humidity: ≤95%, non-condensing

2 Loop Fire Alarm Control Panel Model: TC5120



The panel is an addressable fire detection and indication control panel designed to meet all the requirements of EN54. Certificate EN541-2/4
Modular type panel, 2 Loop Panel, 255 addresses per loop
non-polarity alarm linkage and totally hashed detector and module addresses
Color Graphics LCD displaying fire fault and messages
It can Set up the detector Normal/Sensitive/Insensitive
It can connected with floor fire display panel by RS-485 bus
It multi-line and bus linkage control unit to control and monitor important equipment.
It has a super long circuit bus that has a total bus length of up to 2000m.
It can be connected to a special mini-printer to realize real-time printing
Technical Specifications
Mains supply:AC220V (5A),Voltage range: +10%~-15%
Backup battery:DC24V,12/7AH, 12/24AH sealed lead acid battery
LCD screen size: 4.3-inch color LCD screen
Operating Environment:Temperature: 0°C~+40°C;
Relative Humidity: ≤95%, non-condensing
Capacity: 510 addressable points

Addressable Fire Alarm Control Panel

4 Loop Fire Alarm Control Panel Model: TC5100



The panel is an addressable fire detection and indication control panel designed to meet all the requirements of EN54. Certificate EN541-2/4
Modular type panel, 4 Loop Panel, 255 addresses per loop
It can Set up the detector Normal/Sensitive/Insensitive
Color Graphics LCD displaying fire fault and messages
non-polarity alarm linkage and totally hashed detector and module addresses
It can Set up the detector Normal/Sensitive/Insensitive
It can connected with floor fire display panel by RS-485 bus
It multi-line and bus linkage control unit to control and monitor important equipment.
It has a super long circuit bus that has a total bus length of up to 2000m.
It can be connected to a special mini-printer to realize real-time printing
Mains supply: AC220V (5A), Voltage range: +10%~-15%
Backup battery: DC24V, 12/7AH、12/24AH sealed lead acid battery
LCD screen size: 4.3-inch color LCD screen
Operating Environment: Temperature: 0°C~+40°C;
Relative Humidity: ≤95%, non-condensing
Capacity: 510 addressable points

Repeater Panel Model: TCFS5089



The repeater panel is connected to TC5016/TC5012/TC5100 series panel to repeat the event message on the system.
One series loop can connect Max.12 repeater.
The repeater is connected with panel by 2 wire DC24V power and 2 wire
It can give audible and visual alarms and has a local fault detection and alarm function.
It can change the zone display, building display or floor display through setting.
It can provide a group of relay external control contacts and start the peripheral equipment.
Power: DC24V
Communication: RS485

Addressable Fire Alarm Detectors

Addressable Photoelectric Smoke Detector Model: TC5101



This Intelligent Addressable Photo-Electric Smoke Detector uses an intelligent optical sensing chamber. Operating voltage : DC16V-28V
This detector is designed to provide open area protection and to be used with TC5160/TC5120/TC5100 panels.
It has one LED on each detector to provide a local 360° viewing alarm indication.
It flashes every few seconds, indicating that power is applied and the detector is working properly.
The LED latch on in alarm. The LED will be off when a trouble condition occurs, indicating that the detector sensitivity is outside the listed limit. The alarm can be reset only by a momentary power interruption.
Technical Specifications
Operating voltage: Loop 24V(16V~28V)
Operating current : Standby current: ≤0.3mA; Alarm current: ≤0.8mA
Operating Environment: Temperature: -10°C~+ 55°C
Relative Humidity: ≤95%, non-condensing

Addressable Heat Detector Model: TC5102



This Intelligent Addressable Heat Sensor uses a thermal sensing element for detection
This detector is designed to provide open area protection and to be used with TC5160/TC5120/TC5100 panels.
It has ONE LED on each detector to provide a local 360° viewing alarm indication.
It flashes every few seconds, indicating that power is applied and the detector is working properly.
The LED latch on in alarm. The LED will be off when a trouble condition occurs, indicating that the detector sensitivity is outside the listed limit. The alarm can be reset only by a momentary power interruption.
Technical Specifications
Operating voltage: Loop 24V(16V~28V)
Operating current : Standby current: ≤0.3mA; Alarm current: ≤0.8mA
Operating Environment: Temperature: -10°C~+ 55°C
Relative Humidity: ≤95%, non-condensing

Addressable Multi Photoelectric Smoke & Heat Detector Model: TC5103



This Intelligent Addressable Multi-Detector uses an intelligent optical sensing chamber and a thermal sensor at the same time to detect smoke and heat. Operating voltage : DC16V-28V.
This detector is designed to provide open-area protection and to be used with our TC5160/TC5120/TC5100 panels.
It has one LED on each detector to provide a local 360° viewing alarm indication.
It flashes every few seconds, indicating that power is applied and the detector is working properly.
The LED latch on in alarm. The LED will be off when a trouble condition occurs indicating that the detector sensitivity is outside the listed limit. The alarm can be reset only by a momentary power interruption.

Addressable Fire Alarm
Addressable Fire Alarm

Addressable Fire Alarm Products

Addressable Manual Call Point
Model: TC5204



The device is an intelligent Addressable Call-Point based upon our industry standard series housing and features easy to install, push-fit wiring terminals.

Can be reset by key Fire proof materials
Red colour Modern style Call-Point
Addressable Protocol

Operating voltage: Loop 24V
Operating current:
Standby current: $\leq 0.2\text{mA}$; Alarm current: $\leq 0.8\text{mA}$
Operating Environment: Indoor Temperature: $-10^{\circ}\text{C} \sim +55^{\circ}\text{C}$

Addressable Sound Strobe
Model: TCSG5228



The device is an addressable loop powered addressable sounder innovatively designed to provide a range of tones and volumes with a maximum output of up to 85-115dB(A) ($\pm 2\text{dB(A)}$) with low current consumption. Loop Powered

Single Loop Address - addressed via the Hand Held Programmer
Variable Sound Output 85 ~ 115dB(A) (A weighted) output at 1 metre
Operating voltage: DC19-28V (pulse modulation)
Operating current: $\leq 1.5\text{mA}$ alarm current: $\leq 50\text{mA@DC24V}$
Flushing rate: one time/s

Address Programmer
Model: TCBM5023



Manual structure, compact appearance
LCD and Chinese display; direct display
BaOery management funcPon
Hand-held structure
Technical Specifications
Power supply: 2 pieces of 1.5V/5 batteries
Operating current: $\leq 40\text{mA}$
Standby current: $\leq 2\text{mA}$ (4mA when the backlight is on)
Operating Environment:
Temperature: $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$
Relative Humidity: $\leq 95\%$, non-condensing

Addressable Fire Alarm Products

Addressable Input Module
Model: TCMK5201



This Input module can be Connect Normally Open contacts equipment
The device is a single input module designed to interface in a variety of inputs such as door contacts, door switches, 4 wire detectors, Water flow indicator, pressure switch to the Addressable system.

Operating voltage: Loop: 24V (16V~28V)
Operating current: Standby current: $\leq 0.2\text{mA}$; Alarm current: $\leq 0.8\text{mA}$
Operating Environment: Temperature: $-10^{\circ}\text{C} \sim +55^{\circ}\text{C}$;
Relative Humidity: $\leq 95\%$, non-condensing

Addressable Output Module
Model: TCMK5202



Operating voltage: Loop: 24V (16V~28V); Power: DC24V (DC20V ~ DC28V)
Standby current: Loop: $\leq 0.2\text{mA}$; Power: $\leq 1.5\text{mA}$
Starting current: Loop: $\leq 2\text{mA}$; Power: $\leq 15\text{mA}$
Operating Environment: Temperature: $-10^{\circ}\text{C} \sim +55^{\circ}\text{C}$;
Relative Humidity: $\leq 95\%$, non-condensing
Output capacity: each module can load up to 60W
Movements indicator: red, inspection flashing, Chang Liang when moving
Wire system: connect with signal two bus of controller and two bus of power supply; connect two normal broadcasting lines, two fire protection broadcasting lines and two audio output lines

Gas Alarm Control Panel
Model: TC5306



Maximum 1 loop, up to 255 addressable points
LCD display
The information of alarm, faults, and other operations can be printed
Wall-mounted
Technical Specifications
Main power: AC220V (3A)
Voltage range: $+10\% \sim -15\%$
Backup battery: DC24V (6A);
12V/7AH sealed lead acid battery
Ambience Environment:
Temperature: $0^{\circ}\text{C} \sim +40^{\circ}\text{C}$
Relative Humidity: $\leq 95\%$, non-condensing

Addressable Fire Alarm Products

Loop Isolator Module Model: TCMK5200



Isolate the shorted circuit from the whole system to ensure normal operation of other parts
After removing the shorted circuit fault, it can automatically bring the Isolated part into the system
Optional 170 mA and 270 mA
Non-polarized two-wire
Technical Specifications
Operating current: Action current ≤ 170 mA or 270 mA (B and ZX2 short circuit here)
Load capacity: Loop 24V, 170mA; Loop 24V, 270mA (B and ZX2 short circuit here)
Indicator: Yellow, Quiet in normal condition, Illuminates in action
Operating Environment: Temperature: $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$;
Relative Humidity: $\leq 95\%$, non-condensing

Input/output Module Model: TCMK5203



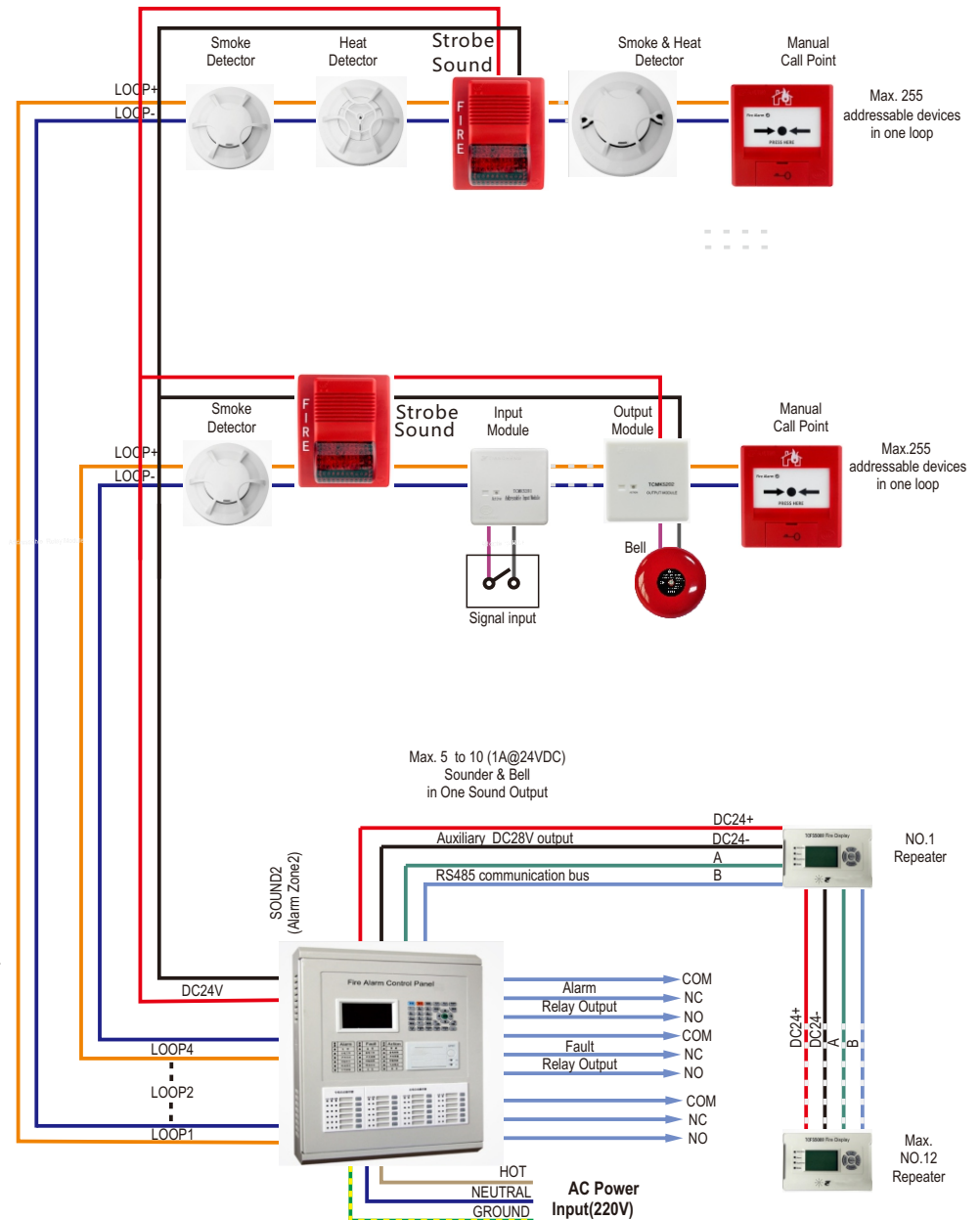
Volt output and volt-free output
The input terminal can be in field set to normally open detecting wire or self-feedback mode, which can be connected volt-free contact
Technical Specifications
Operating voltage: Loop: 24V (16V~28V); Power: DC24V (DC20V ~ DC28V)
Standby current: Loop: ≤ 0.2 mA; Power: ≤ 2 mA
Starting current: Loop: ≤ 2 mA; Power: ≤ 22 mA
Operating Environment: Temperature: $-10^{\circ}\text{C} \sim +55^{\circ}\text{C}$;
Relative Humidity: $\leq 95\%$, non-condensing
Output capacity: Volt output: Capacity: DC30V/3A;
Contact resistance in normal condition: 100k; Closed when activated; Suitable for DC or AC12V~48V;
Volt-free output: DC24V/1.5A
Indicator: Red, Input indicator, Flashes when polling, Illuminates in action, Output indicator, Illuminates in action

Fire hydrant button Model: TC5205



Installed in the fire hydrant box, when the artificial confirmed after the occurrence of the fire, press this button, you can start the fire pump,
At the same time to the fire alarm controller sends out the alarm signal, alarm controller receives the alarm signal, will display a button code addresses and display equipment status.
Operating voltage: Loop 24V
Operating current: Standby current: ≤ 0.2 mA; Alarm current: ≤ 1.5 mA
Operating Environment: Indoor Temperature: $-10^{\circ}\text{C} \sim +55^{\circ}\text{C}$;
Relative Humidity: $\leq 95\%$, non-condensing
Indicator lamp: starting lamp: red, 3S light shining once in normal inspection, it is always bright after starting
Answer light: green, when the fire pump is started, light the LED

ADDRESSABLE FIRE ALARM SYSTEM ARCHITECTURE



Projects of fire alarm and control system

Xi'An Qujiang New Area Building



TianYuan community area



ChangAn Exhibition Hall



Xi'An Hi-Tech high school



XiYang International Airport



China Fast Gear Factory



Addressable Fire Alarm

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