tna

For Better Protection

FIRE ALARM SYSTEMS

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Company profile

TANDA UK Ltd, offers its authorized clients free of charge comprehensive Technical Training that covers Installation, Programming, System Configuration, and Maintenance.

TANDA UK Ltd, has a strong management team and a capable R&D team, which has accumulated over 10 years of rich experience in design, production, and sales of intelligent fire alarm systems. TANDA UK Ltd operates as a subsidiary of TANDA Technology Ltd which has a production base occupying over 20,000 square meters area and is equipped with automatic SMT production lines with a total annual production capacity of 13,500,000 detectors and modules as well as 35,000 units of intelligent fire alarm control panels in strict conformity with ISO9001 and ISO14001.

TANDA UK Ltd, with its high-quality products, visionary of R&D team, skills of marketing and sales team, and accurate pricing TANDA has set its goal to position itself within the top 5 companies in the fire alarm industry within 5 years of gaining the certifications. For this goal, TANDA has put the fundamental stone for three active operation centers in the UK,Turkey and Kosovo in order to be close to clients and meet their requirements.

TANDA UK Ltd, always takes customers' needs above all priorities in order to deliver the best solutions that suit the requirements of market competition in terms of quality and technology without neglecting the great importance of the budget and after-sales services.

TANDA UK Ltd, has been founded to be the best choice for clients not only because of its product range and prices but also for its fundamental principle to providing clients with timely Sales and Technical support short cutting formalities barriers that usually reflect on the response time upon critical needs.

LPCB / EC-CPR APPROVALS

GULF CERTIFICATES & APPROVALS

Abu Dhabi Civil Defense
UAE

Dubai Civil Defense
UAE

Civil Defense
Egypt

Fire Service Directorate
Kuwait

Approval
Qatar

Protection & Safety
Directorate Bahrain

TX7004

Intelligent Addressable Fire Alarm Control Panel

Features and Benefits

- Certified EN54-2:1997 +A1:2006, EN54-4:1997 + A1:2002 + A2:2006.
- LPCB Approved.
- Using advance microprocessor technology with Large memory capacity.
- Enhance user interface combining LCD Touch screen and keypad access.
- Support real time visual algorithm.
- Enhance false alarm prevention.
- Keypad and PC programming.
- Built-in Multiple interface protocol such as USB/Ethernet/CanBus/ Serial/RS485 (Available only in TX7004/4 Panel).
- Support Loop Powered devices for extra saving on cable cost.
- Built-In Printer and 160 LED Zones Indicators.

System Capacity

- Maximum 4 loop in network application built-in 4-in-1 Communication card.
- Maximum 6 loop in standalone basis.
- Support 254 Devices (1,524 ideal).
- Network up to 512 Node.
- Programmable Capacity.
- Zones up to 3000.
- Sounders Groups 1-1000.
- Modules Groups 1001- 2000.
- Built-in 160 LED Zones Indicator.

Overview

The TX7004 comprises of a range of analogue addressable, microprocessor-based fire alarm control equipment to offer flexibility in both design and operation. The System is a modular concept for easy tailoring of system design, to meet the full requirements of the project. The TX7004 Intelligent Fire Alarm Control Panel is designed and manufactured to meet the requirements of BS EN54 Part 2&4. The TX7004 is designed to provide early warning fire detection, to quickly identify the location of fire and provide user definable text informing the occupants of the building of potential smoke spread. Simultaneously, the TX7004 will alert and evacuate the occupants, and control all necessary auxiliary command functions such as elevator control, air handling shut down, gas shut off & damper control, as per the cause and effects requirements configured through Command Builder Set-up.

Commissioning Advantage

- Auto Enrolling of Devices.
- Loop Mapping with colour coding status.
- Monitor device mismatch and dual address conflict.
- Command Builder to create requirements for a fire event scenario.
- With Loop protection against power surge
- One-man test with On/Off sounder Programming Protection.

Technical Specification

Listed	LPCB / CE-CPR
Certified	EN54-2:1997 +A1:2006, EN54-4:1997 + A1:2002 + A2:2006
Power Rating	
Input Voltage	240VAC +10%-15%, 50/60Hz
Input Current Consumption	1 A
PSU Output to CIE	24.5 to 28.5 VDC
Batteries	2 x 12V / 24AH
Networking and Interfaces	
Panel to panel communication	Can Bus [loop]
Number of Panels	512
Interface Card	USB, RS485 Serial, RS232 Serial, Ethernet
System Capacity	
Memory [Non-Volatile]	1000 Fire Events, 10,000 General Event
Zones	3,000 programmable
Total Group	3,000 programmable
Sounder Group	1,000 programmable
Common Group	2,000 programmable

Loop Specifications	
Protocol/ Addressing	T&A, Value range from 1 to 254
No. of Loop	4 Loop
Protection	Built-in 4kV Surge protection
Power rating	16 to 24Vdc
Cabling	1.2Km Max Length/2 x 1.5mm²solid core Fire resistance
Input/outputs	
Programmable Relays	4 circuits: Normally Open/Close
Programmable Input	1 Circuit: Power limited 24Vdc (for future use)
Programmable Auxiliary Power	19 t0 28 VDC (Note: Current Limited)
Fixed Outputs (FPE/Sounder)	2 Circuits: 18 t0 28 VDC (Note: Current Limited)
Indicator	24 LED Status/ 160 Zone Indicators
Display	7” TFT Touch Screen
Keypad	5 Brigade buttons and Programming Keypad
Material / Color	Flat sheet Metal / with outer glass door, Orange stripe
IP rating	30
Dimension Lx W x H	530 mm x 490 mm x 135 mm
Weight	16.70 Kg
Humidity	0 to 95% Relative Humidity, Non condensing

Ordering Information

TX7004/1	1 Loop LPCB Approved .7" LCD display touch screen, Fitted with 1x Single Loop Card, basic configuration up to 254 Addressable Devices, expandable to 6-loop by adding loop card (here works as 6 loops stand-alone panel). No Glassdoor and built-in Printer. Optional Communication Card NC7004. Excluding Batteries. This panel can work as an **active repeater panel**.
TX7004/2	2 Loop LPCB Approved .7" LCD display touch screen, Fitted with 1x Dual Loop Card, basic configuration up to 508 Addressable Devices, expandable to 6-loop by adding loop card (here works as 6 loops stand-alone panel). Built-in Glass Door and Printer. Optional Communication Card NC7004. Excluding Batteries
TX7004	4 Loop LPCB Approved .7" LCD display touch screen, Fitted with 2x Dual Loop Card, basic configuration up to 1016 Addressable Devices, expandable to 6-loop by adding loop card (here works as 6 loops stand-alone panel). Built-in Glass Door and Printer. Built-in Communication Card NC7004. Excluding Batteries

TX7008

8 Loop Intelligent Addressable Fire Alarm Control Panel

Features and Benefits

- Compliance EN54-2 and EN54-4.
- Using advance microprocessor technology with Large memory capacity,
- Built-in USB port for commissioning purpose.
- Enhance user interface combining LCD Touch screen and keypad access.
- Support real time visual algorithm.
- Enhance false alarm prevention.
- Keypad and PC programming .
- Built-in Multiple interface protocol such as USB/Ethernet/CanBus/ Serial/RS485 (Available only in TX7004/4 Panel).
- Support Loop Powered devices for extra saving on cable cost.
- Built-In Printer and 160 LED Zones Indicators.

System Capacity

- Maximum 8 loop in network application
- Support 254 Devices (1,524 ideal)
- Network up to 512 Node
- Programmable Capacity
- Zones up to 3000
- Sounders Groups 1-1000
- Modules Groups 1001- 2000
- Built-in 160 LED Zones Indicator

Overview

The TX7008 comprise of a range of analogue addressable, microprocessor-based fire alarm control equipment to offer flexibility in both design and operation. The System is modular concept for easy tailoring of system design, to meet the full requirements of the project. The TX7008 Intelligent Fire Alarm Control Panel is designed and manufactured to meet the requirement of BS EN54 Part 2&4. The TX7008 is designed to provide early warning fire detection, to quickly identify the location of fire and provide user definable text informing the occupants of the building of potential smoke spread. Simultaneously, the TX7008 will alert and evacuate the occupants, and control all necessary auxiliary command functions such as elevator control, air handling shut down, gas shut off & damper control, as per the cause and effects requirements configured though Command Builder Set-up.

Commissioning Advantage

- Auto Enrolling of Devices.
- Loop Mapping with colour coding status.
- Monitor device mismatch and dual address conflict.
- Command Builder to create requirements for fire event scenario.
- With Loop protection against power surge
- One-man test with On/Off sounder Programming Protection.

Technical Specification

Compliance	EN54-2:1997 +A1:2006, EN54-4:1997 + A1:2002 + A2:2006
Power Rating	
Input Voltage	240VAC +10%-15%, 50/60Hz
Input Current Consumption	1.3 A
PSU Output to CIE	21.5 to 28.5 VDC
Batteries	2 x 12V / 45AH (Recharge-able-Lead acid type battery)
Networking and Interfaces	
Panel to panel communication	Can Bus [loop]
Number of Panels	512
Interface Card	USB, Optional: RS485 Serial, RS232 Serial, Ethernet
System Capacity	
Memory [Non-Volatile]	1000 Fire Events, 10,000 General Event
Zones	3,000 programmable
Total Group	3,000 programmable
Sounder Group	1,000 programmable
Common Group	2,000 programmable

Loop Specifications	
Protocol/ Addressing	T&A, Value range from 1 to 254
No. of Loop	6-to-8 Loop
Protection	Built-in 4kV Surge protection
Power rating	16 to 24Vdc / 120mA
Cabling	1.0Km Max Length/2 x 1.5mm²solid core Fire resistance
Input/outputs	
Programmable Relays	4 circuits: Normally Open/Close
Programmable Input	1 Circuit: Power limited 24Vdc (for future use)
Programmable Auxiliary Power	19 to 28 VDC (Note: Current Limited)
Fixed Outputs (FPE/Sounder)	2 Circuits: 18 t0 28 VDC (Note: Current Limited)
Indicator	24 LED Status/ 160 Zone Indica-tors
Display	7” TFT Touch Screen
Keypad	5 Brigade buttons and Program-ming Keypad
Material / Color	Flat sheet Metal / with outer glass door, Orange stripe
IP rating	30
Dimension Lx W x H	550 mm x 510 mm x 222 mm
Weight	23 Kgs
Humidity	0 to 95% Relative Humidity, Non condensing

Ordering Information

TX7008	Wall-mount. Fitted 4 loop cards, up to 2032 addressable devices. Built-in Communication Card. Built-in 160 LED Zones Indicator. Ideal for Network Repeater Panel application. 550 \mm x 510 mm x 222 mm Cabinet Size. Excluding Batteries. Optional Accessories: TX7814.
TX7008-6	Wall-mount. Fitted 3 loop card, up to 1524 addressable devices.. Built-in 160 LED Zones Indicator. Ideal for Network Repeater Panel application. 550 mm x 510 mm x 222 mm Cabinet Size. Excluding Batteries. Optional Accessories: LC7008, TX7814, NC7008 Communication card

TX7002

Intelligent Addressable Fire Alarm Control Panel

Overview

The TX7002 comprise of a range of analogue addressable, microprocessor-based fire alarm control equipment to offer flexibility in both design and operation. The System is modular concept for easy tailoring of system design, to meet the full requirements of the project. The TX7002 Intelligent Fire Alarm Control Panel is designed and manufactured to meet the requirement of BS EN54 Part 2&4.

The TX7002 is designed to provide early warning fire detection, to quickly identify the location of fire and provide user definable text informing the occupants of the building of potential smoke spread. Simultaneously, the TX7002 will alert and evacuate the occupants, and control all necessary auxiliary command functions such as elevator control, air handling shut down, gas shut off & damper control, as per the cause and effects requirements configured though Command Builder Set-up.

Features and Benefits

- Compliance EN54-2:1997 +A1:2006, EN54-4:1997 + A1:2002 + A2:2006.
- LPCB Pending.
- Using advance microprocessor technology with Large memory capacity.
- Enhance user interface combining LCD Touch screen and keypad access.
- Support real time visual algorithm.
- Enhance false alarm prevention.
- Keypad and PC programming.
- Support Multiple interface protocol such as USB/Ethernet/CanBus/Serial /RS485/fiber Optic.
- Support Loop Powered devices for extra saving on cable cost.
- Optional and 30 LED Zones Indicators.

System Capacity

- 1 and 2 loop Panel,
- Support 254 Devices per loop
- Network up to 512 Node
- Programmable Capacity
- Zones up to 3000
- Sounders Groups 1-1000
- Modules Groups 1001- 2000

Commissioning Advantage

- Auto Enrolling of Devices.
- Loop Mapping with colour coding status.
- Command Builder to create requirements for fire event scenario.
- With Loop protection against power surge.
- One-man test with On/Off sounder Programming Protection

Technical Specification

Listed	Pending
Compliance	EN54-2:1997 +A1:2006, EN54-4:1997 + A1:2002 + A2:2006
Power Rating	
Input Voltage	100-240VAC +10%-15%, 50/60Hz
Input Current Consumption	1 A
PSU Output to CIE	24.5 to 28.5 VDC
Batteries	2 x 12V / 24AH
Networking and Interfaces	
Panel to panel communication	Can Bus [loop]
Communication Port	USB Port (Use for Program-ming)
Number of Panels	512
Interface Card	USB, RS485 Serial, RS232 Serial, Ethernet (Optional NC7004)
System Capacity	
Memory [Non-Volatile]	1000 Fire Events, 10,000 Gener- al Event
Zones	3,000 programmable
Total Group	3,000 programmable
Sounder Group	1,000 programmable
Common Group	2,000 programmable

Loop Specifications	
Protocol/ Addressing	T&A, Value range from 1 to 254
No. of Loop	1 Loop (Model TX7001), 2 loop (Model TX7001-2)
Protection	Built-in 4kV Surge protection
Power rating	24Vdc / 120mA
Cabling	1.0 Km Max Length/2 x 1.5mm²solid core Fire resistance
Input/outputs	
Programmable Relays	2 circuits: Normally Open/Close
Programmable Input	1 Circuit: Power limited 24Vdc (for future use)
Programmable Auxiliary Power	19 t0 28 VDC (Note: Current Limited)
Fixed Outputs (FPE/Sounder)	1 Circuits: 18 t0 28 VDC (Note: Current Limited)
Indicator	24 LED Status/ 30 Zone Indica-tors
Display	7” TFT Touch Screen
Keypad	5 Brigade buttons and Program-ming Keypad
Material / Color	Flat sheet Metal, Dark Gray with Orange stripe
IP rating	30
Dimension Lx W x H	460 mm x 440 mm x 150 mm
Weight	14.20 Kg
Humidity	0 to 95% Relative Humidity, Non-condensing

Ordering Information

TX7002/1	1 Loop 7" LCD display touch screen, Fitted with 1x Single Loop Card, basic configuration up to 254 Addressable Devices, Optional Printer. Optional Communication Card NC7004. Excluding Batteries
TX7002	2 Loop 7" LCD display touch screen, Fitted with 1x Dual Loop Card, basic configuration up to 508 Addressable Devices. Optional Printer. Optional Communication Card NC7004. Excluding Batteries.

TX7008R

8 Loop Rack type Intelligent Addressable Fire Alarm Control Panel

Overview

The TX7008R comprise of a range of analogue addressable, microprocessor-based fire alarm control equipment to offer flexibility in both design and operation. The System is modular concept for easy tailoring of system design, to meet the full requirements of the project. The TX7008 Intelligent Fire Alarm Control Panel is designed and manufactured to meet the requirement of BS EN54 Part 2&4. The TX7008R is fitted in a rack enclosure and has more space to install other system including optional TANDA TG7 voice alarm system and TANDA TN7 fire telephone system in a single rack cabinet.

Features and Benefits

- Compliance EN54-2 and EN54-4.
- Using advance microprocessor technology with Large memory capacity.
- Built-in USB port for commissioning purpose.
- Enhance user interface combining LCD Touch screen and keypad access.
- Support real time visual algorithm.
- Enhance false alarm prevention.
- Keypad and PC programming .
- Optional Multiple interface protocol such as USB/Ethernet/CanBus/ Serial/RS485.
- Support Loop Powered devices for extra saving on cable cost.
- Built-In Printer and 160 LED Zones Indicators .

Commissioning Advantage

- Auto Enrolling of Devices.
- Loop Mapping with colour coding status.
- Monitor device mismatch and dual address conflict.
- Command Builder to create requirements for fire event scenario.
- With Loop protection against power surge.
- One-man test with On/Off sounder Programming Protection.

System Capacity

- Maximum 8 loop in network application
- Support 254 Devices (2,032 ideal)
- Network up to 512 Node
- Programmable Capacity
- Zones up to 3000
- Sounders Groups 1-1000
- Modules Groups 1001- 2000
- Built-in 160 LED Zones Indicator

Technical Specification

Compliance	EN54-2 and 4
Power Rating	
Input Voltage	240VAC +10%-15%, 50/60Hz
Input Current Consumption	1.3 A
PSU Output to CIE	21.5 to 28.5 VDC
Batteries	2 x 12V / 45AH (Recharge-able-Lead acid type battery)
Networking and Interfaces	
Panel-to-panel communication	Can Bus [loop]
Number of Panels	512
Interface Port	USB, Optional: RS485 Serial, RS232 Serial, Ethernet
System Capacity	
Memory [Non-Volatile]	1000 Fire Events, 10,000 General Event
Zones	3,000 programmable
Total Group	3,000 programmable
Sounder Group	1,000 programmable
Common Group	2,000 programmable

Loop Specifications	
Protocol/ Addressing	T&A, Value range from 1 to 254
No. of Loop	1-to-8 Loop
Protection	Built-in 4kV Surge protection
Power rating	16 to 24Vdc / 120mA
Cabling	1.0Km Max Length/2 x 1.5mm²solid core Fire resistance
Input/outputs	
Programmable Relays	4 circuits: Normally Open/Close
Programmable Input	1 Circuit: Power limited 24Vdc (for future use)
Programmable Auxiliary Power	19 to 28 VDC (Note: Current Limited)
Fixed Outputs (FPE/Sounder)	2 Circuits: 18 t0 28 VDC (Note: Current Limited)
Indicator	24 LED Status/ 160 Zone Indica-tors
Display	7” TFT Touch Screen
Keypad	5 Brigade buttons and Program-ming Keypad
Material / Color	Flat sheet Metal / with outer glass door, Orange stripe
IP rating	30
Dimension Lx W x H	1715 mm x 550 mm x 480mm
Temperature	-5℃~+40℃
Humidity	0 to 95% Relative Humidity, Non condensing

Ordering Information

TX7008R	Rack Type. Fitted 4 loop cards, up to 2032 addressable devices. Built-in Communication Card. Built-in 160 LED Zones Indicator. Ideal for Cabinet Size:1715 mm x 550 mm x 480mm. Excluding Batteries.
TX7008-6R	Rack Type. Fitted 3 loop cards, up to 1524 addressable devices. Built-in 160 LED Zones Indicator. Ideal for Cabinet Size:1715 mm x 550 mm x 480mm. Excluding Batteries. Built-in: Communication card

Accessories of TNA TX7 Series Intelligent Panels

Part Number	picture	product	Function description	Compatible
NC7004		Network card	• USB port for uploading database from PC to control panel, for connecting TX7812 software • RS232 connection for TX7812 • CANBUS connection for networking between panels up to 512 panels	TX7004 TX7002
NC7004-MB		Mod-Bus Network card	• USB port for uploading database from PC to control panel, for connecting TX7812 software • RS232 connection for TX7812 • CANBUS connection for networking between panels up to 512 panels • MODBUS connection for connecting to BMS	TX7004 TX7002
NC7004-IP		TCP/IP Network card	• USB port for uploading database from PC to control panel • Ethernet connection for networking between TX7 panels series by TCP/IP connection	TX7004 TX7002
NC7004-BACNET		Bac-Net Gateway	Convert TNA protocol into standard BACnet IP/MTSP server BMS protocol	TX7004 TX7002
LC7004		Loop Card	Dual Loop card capacity of 508 devices	TX7004 TX7002
MC201		Can Bus-Fiber Optik converter	Converts CANBUS connection to Fiber optic connection between TX7 panel series while networking.	TX7008R TX7008 TX7004 TX7002
TX7940		printer	Thermo micro printer	TX7008R TX7008 TX7004 TX7002
TX7814		Dongle for TX7 panel series	USB dongle access control to TX7 panel series	TX7008R TX7008 TX7004 TX7002

Accessories of TNA TX7 Series Intelligent Panels

Part Number	picture	product	Function description	Compatible
NC7008		Network card	CANBUS Network connection for connecting up to 512 of TX7 panel series.	TX7008 TX7008R
NC7008-RS232		RS232 network card	RS232 connection	TX7008 TX7008R
NC7008-IP		TCP/IP network card	Ethernet connection for networking between TX7 panels series by TCP/IP connection	TX7008 TX7008R
LC7008		Dual Loop Card	Dual Loop Card for TX7008, capacity of 508 devices	TX7008 TX7008R

TX7330

LCD Passive Repeater Panel

Features and Benefits

- Loop Fire display passive repeater panel
- Built-in MCU processor and digital addressing
- Fast response of audible and visible signal from the panel
- Direct access common keys such as MUTE, UP, DOWN and BROWSE.
- Programmable Zone Display such as All Zone, Single Zone and Three Adjacent Zone
- LED status indicator
- Onsite Adjustable Parameter
- Loop sited wiring with external 24V supply
- Compact size and aesthetically pleasing design
- Surface mounting with fix base for simple installation

Overview

TX7330 LCD Repeater Panel is designed with built-in MCU processor to display exact fire event messages from the control panel and fast relay response with simultaneous audible and visual signal output. This repeater panel can also program to limit the zone display from All Zones into a particular zone or three adjacent zones through the panel key buttons. The unit is connected through the communication loop of TX7004 Intelligent control panel along with the devices and can install up to 200 units per loop. The repeater panel can be used whenever there is a need to relay information to multipoint informing key personnel. The unit is manufactured base on the requirement of EN 54 part 2, European Standard. The unit is compact size and aesthetically pleasing with unobtrusive design that will complement modern building designs and its plug-in type assembles make installation and maintenance more convenient to the installer. The unit is compatible to the TX7004 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture T&A, to avoid addressable communication compatibility problem.

Technical Specification

Power Rating	
Input Voltage	Loop Power: 24VDC [16V to 28V]
External PSU:	24VDC [20 to 28V]
Current Consumption	Loop: Standby: 1mA, Alarm: 1.2mA
External PSU	Standby: 25mA, Alarm: 80mA
Repeater Panel	
Memory Capacity	Up to 300 fire event history
Number per loop	Up to 254 units (ideal)
Material / Colour	ABS / White Glossy finishing
Dimension / LWH	180mm x 110 mm x44 mm
Weight	300g (with Base), 256g (without Base)
Operating Temperature	0°C to +40°C
Humidity	0 to 95% Relative Humidity, Non-condensing

Panels and Wiring Details

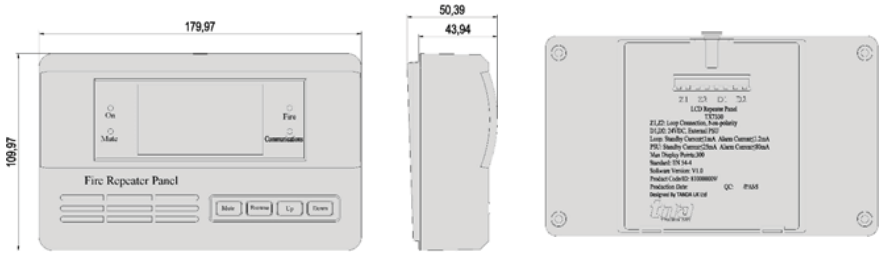


Fig.1 LCD Repeater Panel Structure

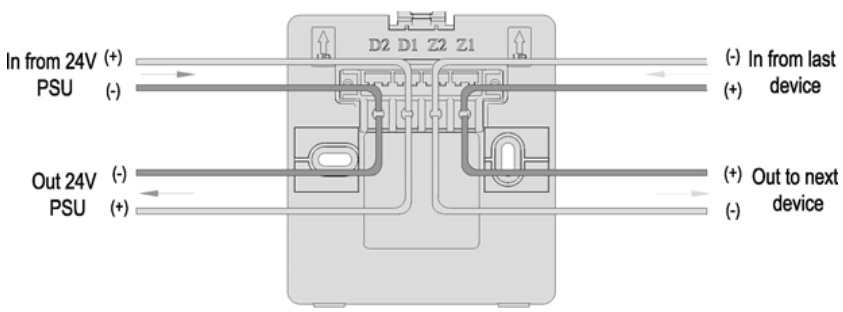


Fig.2 Wiring Details

Terminal Description

Z1 Signal In (+)
Z1 Signal Out (+)
Z2 Signal In (-)
Z2 Signal Out (-)
D1 External Power Supply In (+)
D2 External Power Supply In (-)
D1 External Power Supply Out (+)
D2 External Power Supply Out (-)

TX7331
Mimic Panel

Features and Benefits

- Alarm LED display of an individual device or a zone and group
- Send a sound alarm signal with the control panel
- Can display up to 256 alarm points.
- Can upload default information
- Fully Monitored with Self-test function
- Assemble kit with LEDs, Cabinet is optional

Overview

TX7331 Intelligent Graphic Repeater Panel is designed with built-in MCU processor and it can fast relay response with simultaneous audible and visual signal output. This repeater panel can also program to limit the zone display from All Zones into a particular zone or device. Also it can supervise and indicate the groups as well as device. The unit is connected through the communication loop of TX7004 Intelligent control panel along with the devices and can install up to 254 units per loop. The repeater panel can be used whenever there is a need to relay information to multipoint informing key personnel. The unit is compact size and aesthetically pleasing with unobtrusive design that will complement modern building designs. The unit is compatible to the TX7004 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture T&A, to avoid addressable communication compatibility problem.

Technical Specification

Power Rating	
Power Supply	DC-24V (External EN54-4 PSU is required) Recommended PSU is TX24-5A/10A
Bus Voltage	16V-28V
Bus Current	1.0mA
Bus Alarm Current	1.2mA
Standby Current	25mA
Alarm Current	80mA
Indicator	LED Display
Material / Colour	Flat sheet Metal / Light Gray (Optional)
Dimension	349mm x 275mm x 68mm (Standard)
IP Grade	IP30
Operating Environment	
Temperature	-10℃~+500℃
Relative Humidity	≤95%, non-condensing

TX7100

Intelligent Addressable Optical Smoke Detector

Features and Benefits

- EN54-7:2018 Compliance.
- LPCB Approved.
- Using microprocessor technology with memory capacity of up to 10 events.
- Analogue sending and digital addressing.
- Provide real-time algorithm to the control panel.
- Smart linear drift compensation.
- Onsite adjustable parameter.
- 360-degree visual indicator.
- Removable chamber against dust and small insects.
- Ancillary remote indicator output Aesthetically pleasing design.

Overview

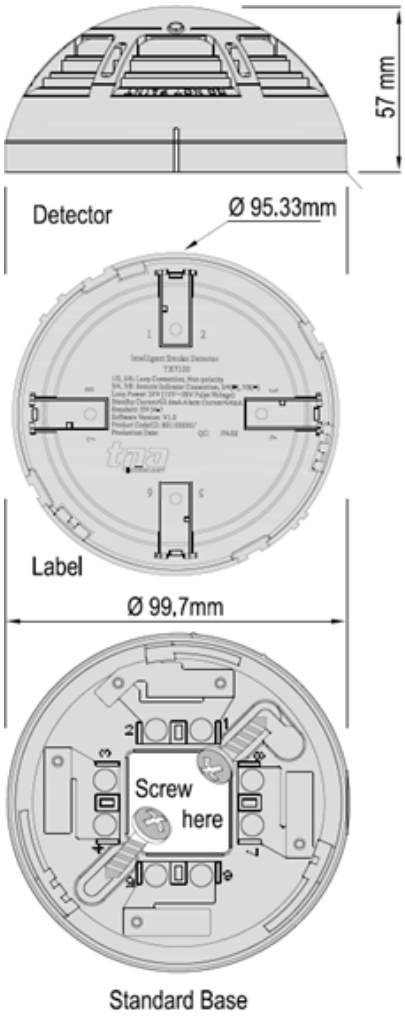
The TX7100 Intelligent Addressable Optical Smoke Detector is the ideal device for most applications, due to its spiffing linear response to a wide variety of different types of smoke patterns. The unit manufactured the sensitivity requirement of EN 54 part 7, European Standard. The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs. The unit incorporates an intelligent processor that provides Algorithm map, inbuilt A/D converter, Drift compensation, and Self-Diagnosis and History log.

Secure and speedy communication through the on-board processor enables the detector to make its own decision, resulting in greater automation. In the event of fire, the integral microprocessor analyses the signal according to factors such as signal strength and rate of increase, then confirms these patterns with the pre-programmed fire scenarios and smoke patterns, for a faster and safer response. Once it is confirmed, the LED indicates the sensor status and parallel sending communication signal to the control panel. The TX7100 detector is compatible to the TX7004 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture T&A, to avoid addressable communication compatibility problem

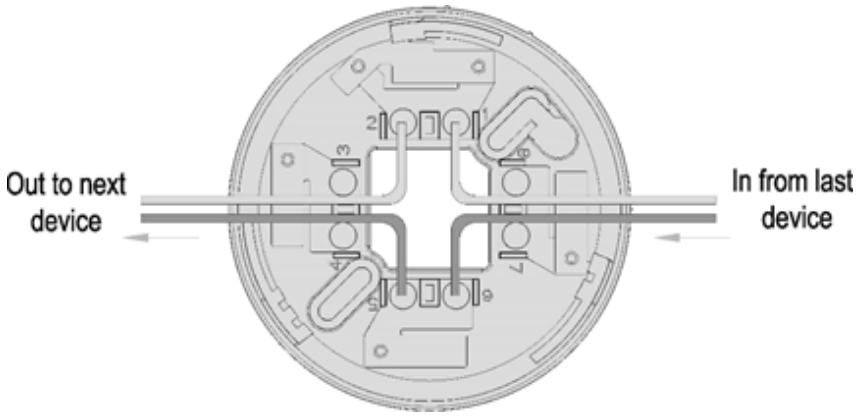
Technical Specification

Listed	LPCB / CE-CPR
Certified	EN54-7:2018
Power Rating	
Input Voltage	24VDC [16V to 28V]
Current Consumption	Standby 0.6mA, Alarm: 4mA
Detector	
Protocol/ Addressing	T&A, Value range from 1 to 254
Sensitivity	As per stipulated standard
Indicator	Single LED / 360-degree Visual
Material / Colour	ABS / White Glossy finishing
Dimension / Height	Diameter 99.7 mm / 57 mm
Weight	145g (with Base), 90g (without Base)
Operating Temperature	-10°C to +50°C
Humidity	0 to 95% Relative Humidity, Non condensing

Detector and Wiring Details



Terminal Description
Signal In (+)
Signal Out (+)
Remote Indicator (+)
Remote Indicator (+)
Signal In (-)
Signal Out (-)
Remote Indicator (-)
Remote Indicator (-)



TX7110

Intelligent Dual Heat Detector

Features and Benefits

- EN 54-5:2017 + A1:2018 Compliance.
- LPCB Approved.
- Using microprocessor technology with memory capacity of up to 10 events.
- Analogue sensor and digital addressing.
- Provide real-time algorithm to the control panel.
- 360-degree visual indicator.
- Onsite Adjustable Parameter.
- Ancillary remote indicator output.
- Aesthetically pleasing design.

Overview

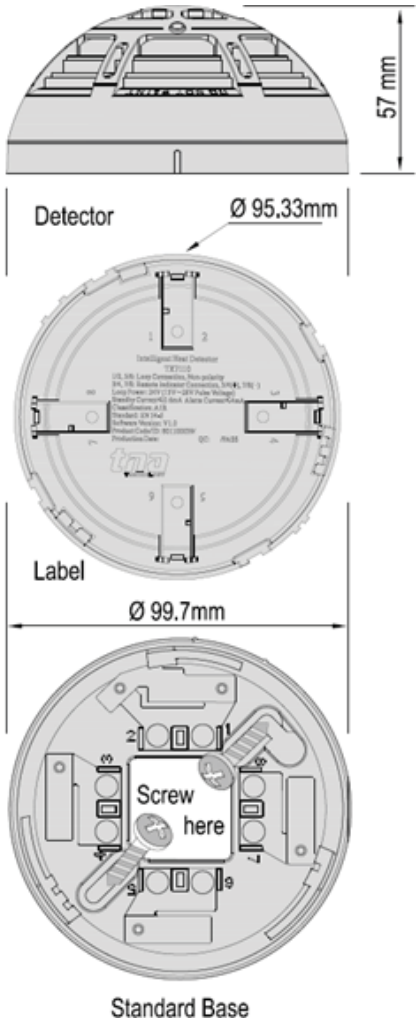
The TX7110 Intelligent Fixed and Rate of Rise Heat Detector is reliable for application in places where may have high dust level or smoky environments, making a normal smoke detector undesirable. The unit manufactured base on the sensitivity requirement of EN 54 part 5, European Standard. The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs. The unit incorporates an intelligent processor that provides inbuilt A/D converter, and Self-Diagnosis and History log.

In the event of fire, the integral microprocessor analyses the signal according to factors such as signal strength and rate of increase, then confirms these patterns with the pre-programmed fire scenarios, heat patterns including rate of rise temperature patterns, for a faster and safer response. Once it is confirmed, the LED indicates the sensor status and parallel sending communication signal to the control panel. The TX7110 detector is compatible to the TX7004 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture T&A, to avoid addressable communication compatibility problem.

Technical Specification

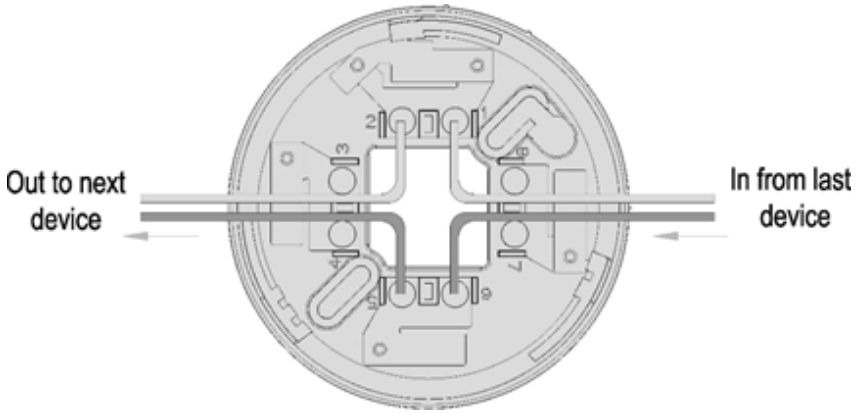
Listed	LPCB / CE-CPR
Certified	EN 54-5:2017 + A1:2018
Power Rating	
Input Voltage	24VDC [16V to 28V]
Current Consumption	Standby 0.6mA, Alarm: 4mA
Detector	
Protocol/ Addressing	T&A, Value range from 1 to 254
Heat Class Type	A1R
Indicator	Single LED / 360-degree Visual
Material / Colour	ABS / White Glossy finishing
Dimension / Height	Diameter 99.7 mm / 57 mm
Weight	127g (with Base), 72g (without Base)
Operating Temperature	-10°C to +50°C
Humidity	0 to 95% Relative Humidity, Non condensing

Detector and Wiring Details



Standard Base

Terminal Description
Signal In (+)
Signal Out (+)
Remote Indicator (+)
Remote Indicator (+)
Signal In (-)
Signal Out (-)
Remote Indicator (-)
Remote Indicator (-)



TX7120

Intelligent Addressable Smoke & Heat Detector

Features and Benefits

- EN54-5:2017 + A12018 & EN54-7:2018 Compliance.
- LPCB Approved.
- Smoke and Heat Sensor.
- Using microprocessor technology with a memory capacity of up to 10 events.
- Analogue sending and digital addressing
- Provide real-time algorithm to the control panel.
- Smart linear drift compensation.
- 360-degree visual indicator.
- Onsite Adjustable Parameter.
- Removable chamber against dust and small insects.
- Ancillary remote indicator output.
- Aesthetically pleasing design.

Overview

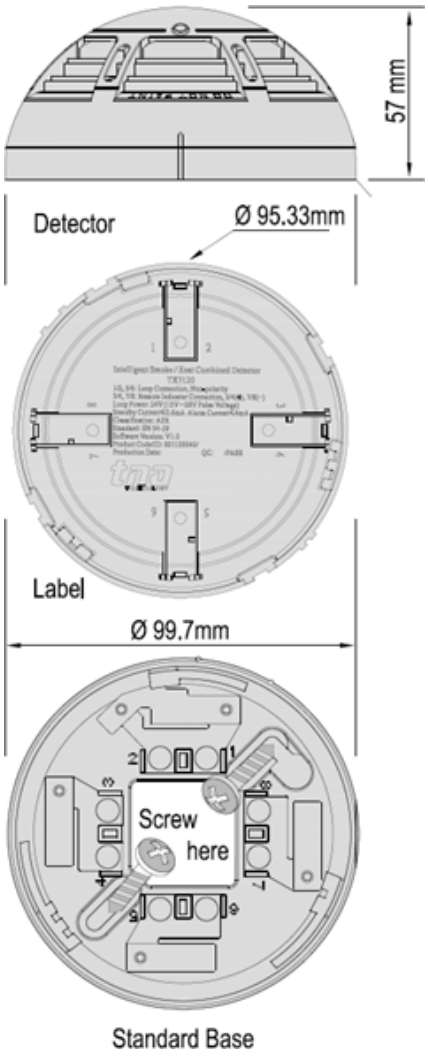
The TX7120 Intelligent Addressable Optical Smoke & Heat Detector is the ideal device for most applications, due to its spiffing linear response to a wide variety of different types of smoke patterns and combining with heat sensing sensor for temperature response. The unit manufactured base on the sensitivity requirement of EN 54 part 29, European Standard. The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs. The unit incorporates an intelligent processor that provides Algorithm map, inbuilt A/D converter, Drift compensation, and Self-Diagnosis and History log.

Secure and speedy communication through the on-board processor enables the detector to make its own decision, resulting in greater automation. In the event of fire, the integral microprocessor analyses the signal according to factors such as signal strength and rate of increase, then confirms these patterns with the pre-programmed fire scenarios, smoke and heat patterns including rate of rise temperature, for a faster and safer response. Once it is confirmed, the LED indicates the sensor status and parallel sending communication signal to the control panel. The TX7120 detector is compatible to the TX7004 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture T&A, to avoid addressable communication compatibility problem.

Technical Specification

Listed	LPCB /CE - CPR
Certified	EN54-5:2017 + A12018 EN54-7:2018
Power Rating	
Input Voltage	24VDC [16V to 28V]
Detector	
Current Consumption Standby	0.6mA, Alarm: 4mA
Protocol / Addressing	T&A, Value range from 1 to 254
Smoke Sensitivity	As per stipulated standard
Heat Class Type	A2R
Indicator	Single LED / 360-degree Visual
Material / Colour	ABS / White Glossy finishing
Dimension / Height	Diameter 99.7 mm / 57 mm
Weight	145g (with Base), 90g (without Base)
Operating Temperature	-10°C to +50°C
Humidity	0 to 95% Relative Humidity, Non condensing

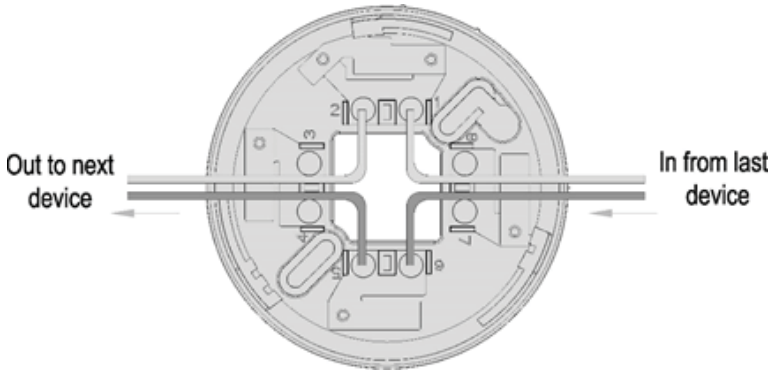
Detector and Wiring Details



Standard Base

Terminal Description

Signal In (+)
Signal Out (+)
Remote Indicator (+)
Remote Indicator (+)
Signal In (-)
Signal Out (-)
Remote Indicator (-)
Remote Indicator (-)



TX7980

Detector Base

Features and Benefits

- Used to mount TNA Intelligent TX7100 Smoke, TX7110 Heat, TX120 Multi-sensor and sounder & strobe base series.
- Made of flame-resistance plastic ABS.
- No electrical Circuit.

Technical Specification

Approvals (Refers to Detector)	LPCB / CE
Material / Colour	ABS/ White Glossy finishing
Dimension / Height	Diameter 99.7 / 15mm
IP Grade	IP30 Indoor Use
Gross Weight	About 55g
Operating Environment	
Temperature	-10℃~+50℃
Relative Humidity	≤95%, non-condensin

TX7232

Short Circuit Isolator Base

Features and Benefits

- EN54-17:2005 Compliance
- LPCB Approved
- In the event of a short circuit, isolates faulty parts of the loop.
- Automatically resetting once, the fault has been cleared
- Can monitor up to 70 devices
- LED status indicator
- Loop-powered device
- Aesthetically pleasing design, Surface mounting installation

Overview

The TX7232 manufactured base on the requirement of EN 54 part 17, European Standard. In the event of short circuit on the detection loop the TX7232 Isolators either side of the loop will detect the problem and open circuit and isolates the faulty part of the loop, enabling other devises on the unaffected part of the loop to operate normally. The base mount short circuit isolator will continue to monitor for the fault to be repaired, once the fault is cleared the isolator will automatically reinstate the effected part of the loop. The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs and used to mount intelligent TX7100 smoke detector, TX7110 heat detector and TX7120 multi-sensor. The TX7232 base mount short circuit isolator is compatible to the TX7004 / TX7002 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture T&A, to avoid addressable communication compatibility problem.

Technical Specification

Listed	LPCB / CE-CPR
Compliance	EN54-17:2005
Power Rating	
Input Voltage	24VDC [16V to 28V]
Current Consumption	Standby 0.15mA, Alarm: 1.8Ma
Maximum Open Voltage(VSO MAX)	11V
Minimum Open Voltage(VSO MIN)	8V
Maximum Close Voltage(VSC MAX)	3V
Minimum Close Voltage(VSC MIN)	1.4V
Maximum Continuous Current (IC MAX)	500mA
Maximum Transient Output Current (IS MAX)	5A
Maximum Leakage Current (IL MAX)	2mA
Max closed impedance (ZC MAX)	0.65 ohms
Module	
Protocol	T&A
Number of monitored	Max 70 Devices
Output Impedance	480 ohms
Indicator Status	Normal: Single blink/Active: Steady-on
Material / Colour	ABS / White Glossy finishing
Dimension / Height	Diameter:100.7 / 35mm
Weight	55g (with Base)
Ingress Protection	IP30
Humidity	0 to 95% Relative Humidity, Non condensing

TX7302

Addressable Sounder Strobe Base

Features and Benefits

- 54-3:2001 + A1:2002 + A2:2006 Certified.
- LPCB Approved.
- Built-in MCU processor and digital addressing.
- 17 tones Programmable sound output (Note: Tone 14, 16 and 17 are recognized by LPCB).
- Encoding modes such as Single-encoding Mode, Dual-encoding Mode 1 and Dual-encoding Mode 2.
- Programmable Evacuate or Pre-alarm/Evacuate signal.
- 8 highlights LED status cluster
- Be started directly by a detector
- Onsite adjustable parameters
- Loop power input
- Aesthetically pleasing design
- Mounting base using TX7980 (Excluded).

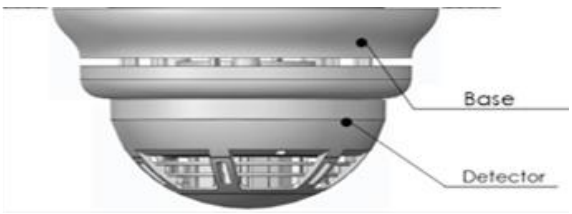
Overview

The TX7302 Addressable Flashing Beacon Base is an alarm warning device used to notify persons in the vicinity of the occurrence fire emergency in order the person to take appropriate measures. The unit adopt multi-application device starting from the types, parameters and wiring layout in single unit. The TX7302 Addressable Flashing Beacon Base is powered by the communication bus. The TX7302 can change into different encoding modes such as Single-encoding Mode, Dual-encoding Mode 1 and Dual-encoding Mode 2 using a programming tool. And it has different starting modes such as started by a detector, a controller or other front-end linkage. In addition, the alarm tone can be configured according to the requirement from 17 different tones.
The unit manufactured base on the requirement of EN 54 part 3, European Standard. The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs and its plug-in type assembles make installation and maintenance more convenient to the installer. The unit is compatible to the TX7004 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture T&A, to avoid addressable communication compatibility problem.

Technical Specification

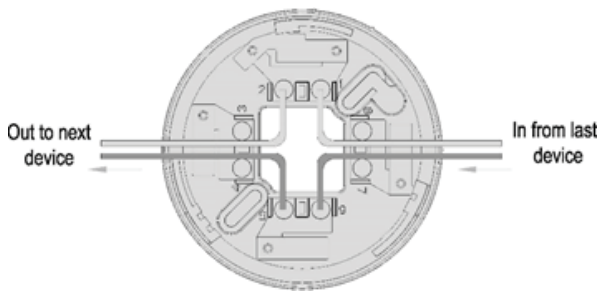
Listed	LPCB / CE-CPR
Compliance	54-3:2001 + A1:2002 + A2:2006
Power Rating	
Input Voltage	Loop Power: 24VDC [20V to 27.5V]
Current Consumption	Standby: ≤0.8mA, Alarm: ≤5mA
Sounder Strobe Base	
Protocol/Addressing	T&A, Value range from 1 to 254
Address Sequence	Single-encoding Mode: Alarm Dual-encoding Mode 1:1st Alarm / 2nd Warning Dual-encoding Mode 2: 1st Warning / 2nd Alarm
Strobe	8 highlights LED
Base	TX7980 Detector Base (Excluded)
Material / Colour	ABS / White glossy finishing
Dimension / Height	Diameter 140mm / 59.1mm (with a cover)
Weight	198g (with a cover)/180g (without a cover)
Class	Type A, Indoors
Operating Temperature	-10°C to +55°C
Ingress Protection Rating	IP21
Humidity	0 to 95% Relative Humidity, Non condensing

Sounder and Wiring Details



Terminal Description

Signal In (+)
Signal Out (+)
Remote Indicator (+)
Remote Indicator (+)
Signal In (-)
Signal Out (-)
Remote Indicator (-)
Remote Indicator (-)



681-001

LED Remote Indicator

Features and Benefits

- Provide 360-degree Visual indication for TX7 addressable series
- Wide Operating voltage from 5 to 35VDC
- Aesthetically pleasing design

Overview

The 681-001 remote indicator provides visual alarm indication for addressable and non-addressable control and indicating equipment detectors.
The indicator is used to identify the detector in alarm, in applications where the detectors are concealed from observation. The 681-001 remote indicators provide fire detection and alarm system designers with an economical product for life safety and property protection applications.

Technical Specification

Power Rating	
Voltage Rating	5 to 35 VDC
Current Consumption	Standby: 0 A; Alarm: 20 mA
Cable/ Terminal	From 0.4 to 2.50 mm2 solid core fire resistance
Dimension / Height	Diameter 79 mm / 19 mm
Color	White finishing
Operating Environment	
Temperature	0℃~+95℃
Relative Humidity	≤95%, non-condensing

TX7988
Duct Probe

Features and Benefits

- Simple & Compact Design
- Anti-Corrosion duct detector housing
- Transparent Lid for easy observation
- Excluding Optical Detector TX7100
- Adjustable Sampling tubes on site.
- Customize sample tube is available upon request

Overview

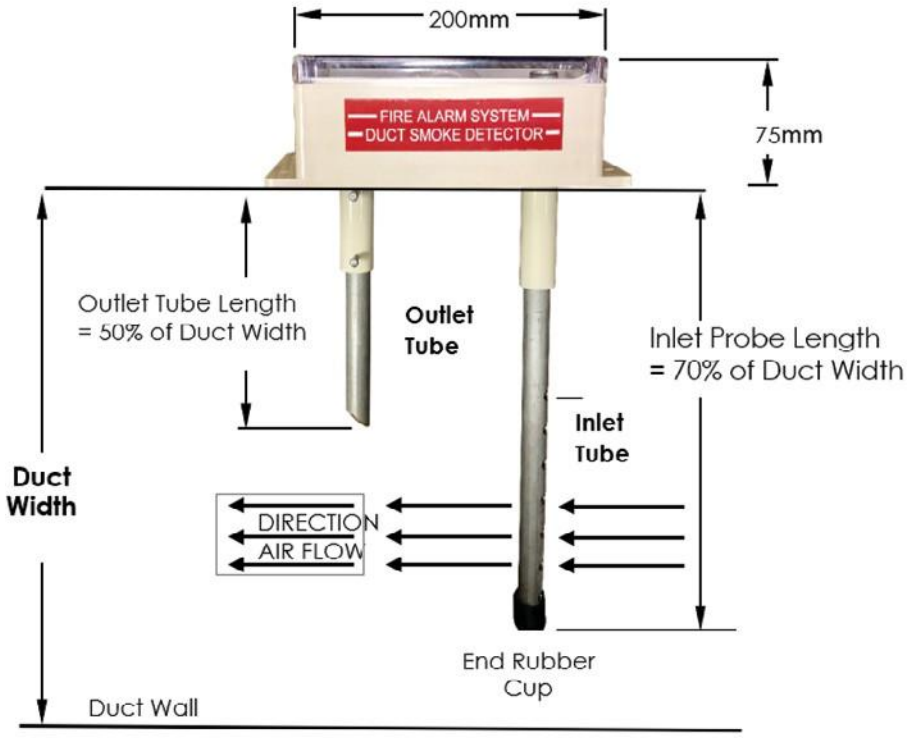
A HVAC system supplies conditioned air to virtually every part of a building. Any smoke introduced into this air duct system is thus spread to the entire building.
The Duct Probe is designed such that samples of air passing through the duct are constantly monitored by the inside Optical Smoke Detector. When sufficient smoke is sensed, an alarm signal is initiated at the Fire Alarm Control Panel monitoring the detector, and appropriate action can be taken to shut off fans and blowers and change over air handling system, etc. This can isolate toxic smoke and fire gases or prevent their distribution throughout the areas served by the duct system

Technical Specification

Duct Probe	
Housing Material	Polystyrene
Lid Cover	Transparent Polycarbonate
Internal Mounting Plate	Galvanized Steel Plat
Sampling tubes	Inlet: Diameter: 20 mm; Length: 700 mm Aluminum pipe
(Standard Supplied)	Outlet: Diameter: 20 mm; Length: 500 mm Aluminum pipe
Colour	Beige
Duct Probe Dimension	240 mm L x 122mm W x 75mm H
Smoke detector	TX7100 inclusive
Operating Environment	
IP Rating	IP65
Temperature	-10℃~+85℃
Relative Humidity	≤95%, non-condensing

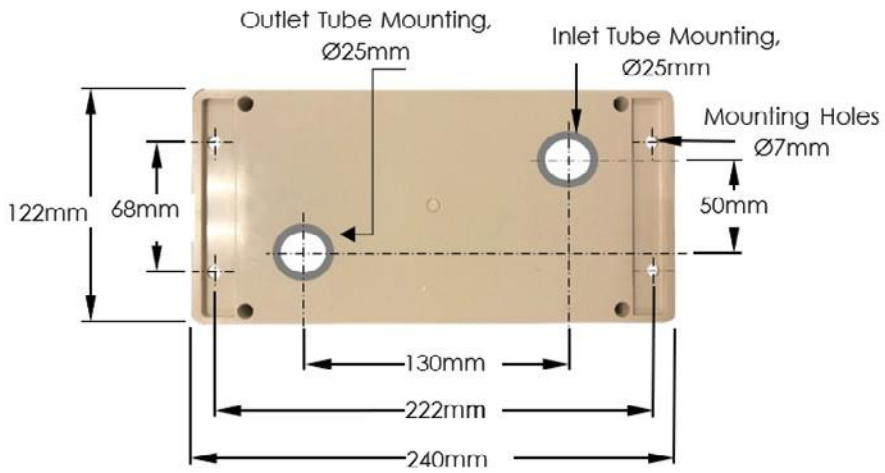
Duct Probe Details

Side View



Inside View

Rear View



Ordering Information

TX7988	Duct probe housing excluding detector base & smoke detector
TX7100	Addressable Smoke detector fit with TX7988 duct probe
TX7980	Base for TX7100

TX7140

Addressable Manual Call Point

Overview

The TX7140 Addressable Manual Call point use a non-breakable glass which is designed to press under light pressure triggering the call point into an alarm condition, with LED indicator mounted onto the front face to simplify the location of an operated call point. Safe to press and no hammer is required. The protected flap on the lower part is used for reset through supplied special tool.
In the event of fire, once it is pressed, the LED goes on indicate the call point status and parallel sending communication signal to the control panel. The TX7140 manual call point is compatible to the TX7004 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture T&A, to avoid addressable communication compatibility problem.

Features and Benefits

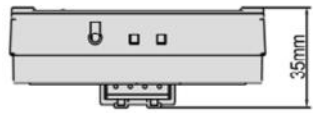
- EN 54-11:2001 + A1:2005
- LPCB Approved
- Using microprocessor technology
- Digital addressing
- Non-breakable glass and hammerless
- Safe to operate and easy to reset
- Semi-flash Mounted, indoor application
- Optional Backbox for Surface mount (TX7004-MB)

Technical Specification

Listed	LPCB / CE-CPR
Compliance	EN 54-11:2001 + A1:2005
Power Rating	
Input Voltage	24VDC [16V to 28V]
Current Consumption Standby	0.6mA, Alarm: 1.8mA
Call Point	
Protocol/ Addressing	T&A, Value range from 1 to 254
Indicator	Single LED / Steady On-when pressed
Material / Colour	Fireproof ABS / RED Glossy finishing

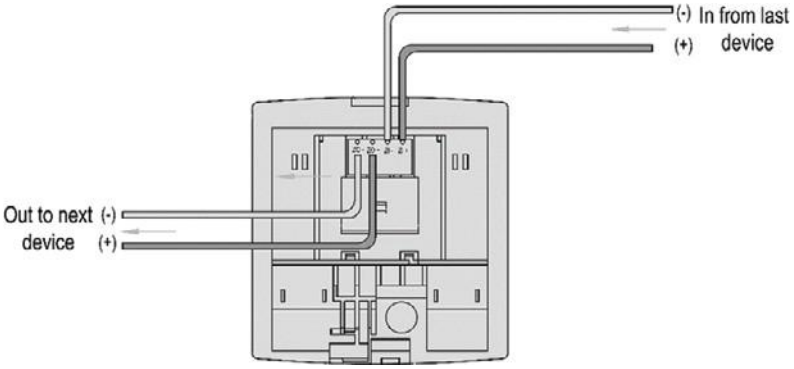
Dimension	89 mm x 93 mm x 35 mm
Weight	102g (with Base), 80g (without Base)
Class	Type A, Indoors
Operating Temperature	-10°C to +55°C
Ingress Protection Rating	IP43
Humidity	0 to 95% Relative Humidity, Non condensing

Call Point and Wiring Details

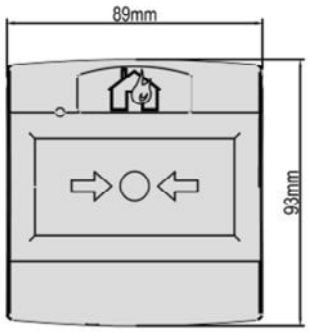


Top view

Label



Terminal Description
Z1 Signal In (+)
Z1 Signal Out (+)
Z2 Signal In (-)
Z2 Signal Out (-)



Call Point

Optional Accessories:

TX7140-PFC

TX3963E

TX7140-PCW

Ordering Information

TX7140	LPCB Approved. Resettable non-breaking glass addressable Recessed Mount MCP.Certi- fied EN54-11:2001 + A1:2005. Optional Back Box for Surface Mount
TX7140-MB	Optional surface mounting backbox
TX7140-PFC	Protective flip cover
TX3963E	Weatherproof protective cover surface mount, IP:66.

TX7140-MB

Backbox

Features and Benefits

- Backbox compatible for TX7140.
- Constructed using high quality plastic.
- No electrical circuit.
- Fit on one gang backbox.
- Easy to install.

Overview

The TX7140-MB is used for TX7140 to provide surface mount installation. This box back has a two knock holes for cable entrance.

Technical Specification

Material / Colour	ABS / RED
Dimension	400.5mm x 400.5mm
Gross Weight	4.2Kg
Operating Environment	
Temperature	-5℃~+40℃
Relative Humidity	≤95%, non-condensin

TX7130

Addressable/conventional Reflective Beam Detector

Features and Benefits

- EN54-12:2015 Certified.
- LPCB Approved.
- Hassle free alignment, built with digital guide display and laser beam pointing.
- Employ single-ended design through reflective mirror.
- Four ranges wide monitoring from 8-100 meters via encoder (TX7930) or dip switch setting.
- Three users programing sensitivity adjustment via encoder (TX7930) or dip switch setting.
- Built-in microprocessor.
- Self-diagnosis function can monitor for internal faults.
- Automatic compensation for factors weakening received signals, such as dust contamination, positional movement and ageing of the transmitter.
- Fire and Fault interfacing relays.
- Attractive and pleasing appearance.
- Real User friendly alignment method.

Overview

TX7130 Conventional Reflective Beam Detector has built in Laser beam pointing and Digital guide display for real user friendly alignment method. The Laser beam pointing accurately point the exact location where to mount mirror and with additional digital guide display allows to monitor and guide on the actual light intensity between the mirror and detector which cannot be seen by our naked eye making it more easy and convenient in alignment commissioning.

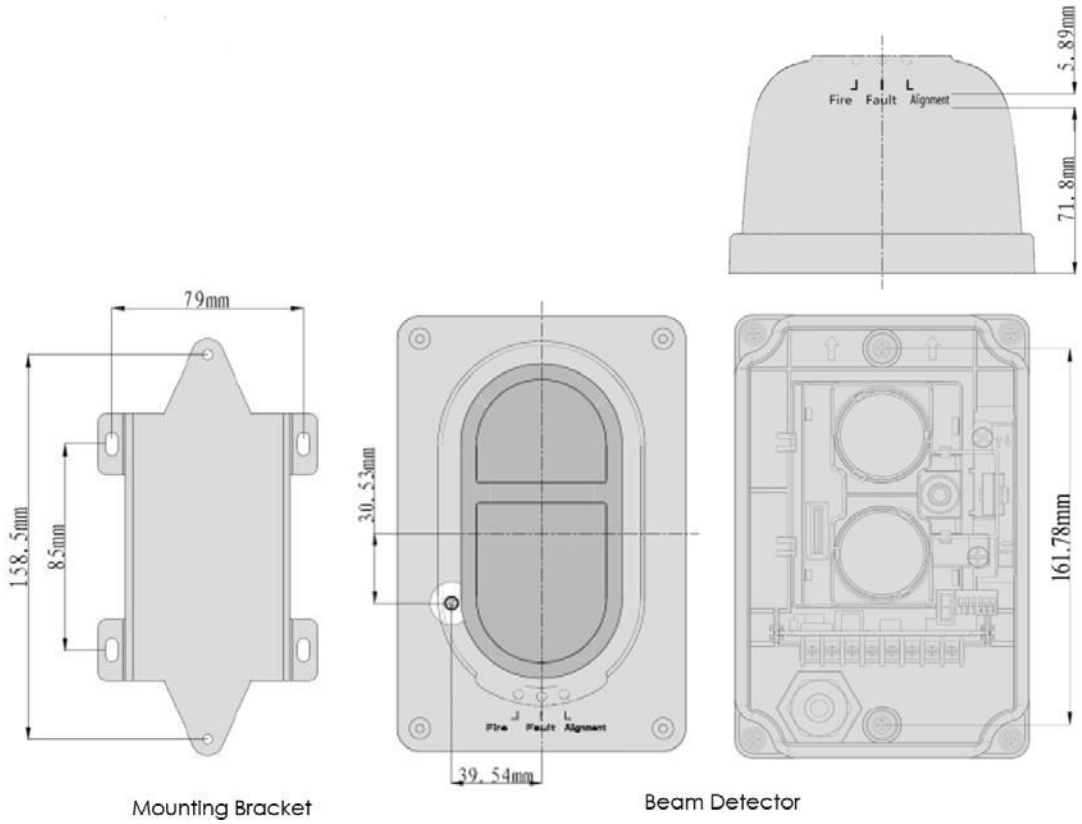
The TX7130 has four adjustable operational ranges of between 8 to 20, 20 to 40, 40 to 70 and 70 to 100 meters beside with three adjustable sensitivity setting ranges from 2.6dB, 3.8dB and 5.8dB to meet the specific environmental requirement. The span and sensitivity can be adjusted through dip switch setting or handheld programmer. The TX7130 works on the principle of reflective infrared beam obscuration. Used in conjunction with a reflector, it will notify the fire alarm panel when the infrared beam is obscured by smoke. The TX7130 is ideal for use high ceiling and wide areas such as warehouses, large storages, shopping malls, leisure centres, exhibition halls, hotel lobbies, printing houses, garment factories, museums and prisons, as well as places where slight smoke particles or corrosive gas exist.

Technical Specification

Standard	
Listed	LPCB / CE-CPR
Compliance	EN54-12:2015
Fire Detection and Alarm Systems	BS 5839 Part 1:2017
Specification	
Operating Voltage	20 V to 28 V DC
Current Parameters	Standby:23mA Commission:56mA Alarm:33mA
Beam Sensor Sensitivity	Level 1: 2.6 dB High Sensitivity Level 2: 3.8 dB Medium Sensitivity Level 3: 5.8 dB Low Sensitivity
Beam Pathway Length	Span 1: 8 to 20 meters Short Path (1x mirror reflector required) Span 2: 20 to 40 meters Short Path (1x mirror reflector required) Span 3: 40 to 70 meters Normal Path (4x mirror reflector required) Span 4: 70 to 100 meters Long Path (4x mirror reflector required)
On site adjustment	Via TX7932 encoder or 6-position dip switch settings

Beam Path Angle	±0.4º Directional
Alignment Guide	Laser Beam Pointer
Digital Display Guide	Nixie Tube
LED Indicator Guide	Red: Fire; Yellow: Fault; Green: Alignment
Reset Time	Less than 2 Second (Power Cut)
Relay Capacity [Fire & Fault]	Normally Open/ 2.0 A; 30 VDC
Physical	
Material / Colour	ABS / White
Dimension / Weight	L:190.87 x W:126.87 x H:91.96 mm / 440 gm
Weight	0.130 Kg with base
Accessories	Mounting Bracket/ TX7130-R 4 x Mirror Reflector
Environmental	Operating Temperature / Protection Rating -10°C to 55°C / IP30 [IP66 glue seal-For permanent fixing
Humidity	Flat sheet Metal, Dark Gray with Orange stripe

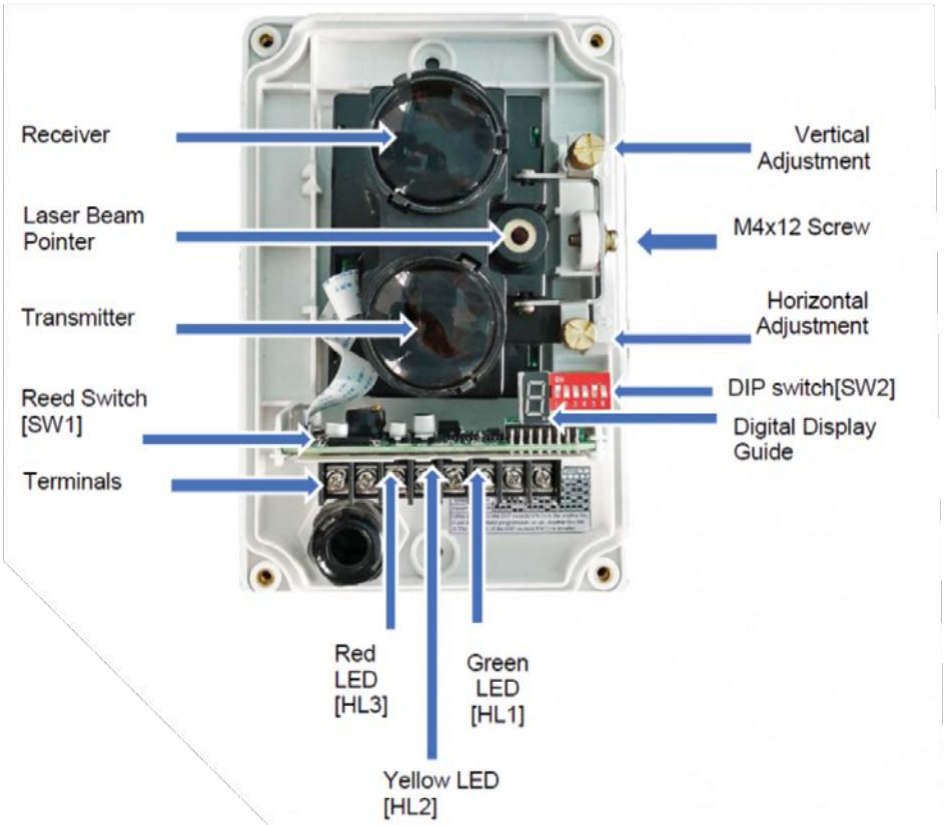
Mounting Details



Mounting Bracket

Beam Detector

Names and Locations



TX7300

Addressable Sounder and Strobe

Features and Benefits

- EN54-3:2001+A1:2002 + A2:2006 Compliance
- Built-in MCU processor and digital addressing
- 17 tones Programmable sound output
- Programmable types such as Sounder-Strobe, Sounder or Strobe alone
- Programmable Evacuate or Pre-alarm/Evacuate signal
- Low and normal consumption mode
- One or Two addresses mode
- 10 Highlights LED status cluster
- Onsite Adjustable Parameters
- Loop or external power input
- Aesthetically pleasing design

Universal mounting with fix base for simple installation

Overview

The TX7300 Addressable Sounder Strobe is alarm warning device used to notify persons in the vicinity of the occurrence fire emergency in order the person to take appropriate measures. The unit adopt multi-application device starting from the types, parameters and wiring layout in single unit. The TX7300 can change into different alarm warning types such as sounder-strobe type, sounder type or strobe type using programming tool. In addition, parameters can be configured according to the requirement which include alarm tone from 17 different tones, single address or dual address mode and also setting of power mode to low current consumption in a simple programming.

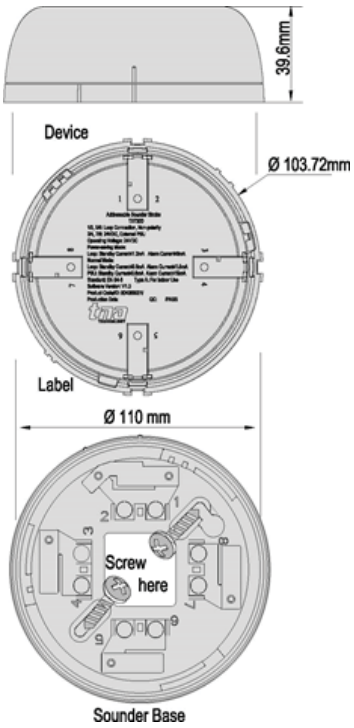
The unit manufactured base on the requirement of EN 54 part 3, European Standard. The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs and its plug-in type assembles make installation and maintenance more convenient to the installer. The unit is compatible to the TX7004 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture T&A, to avoid addressable communication compatibility problem.

Technical Specification

Listed	LPCB / CE-CPR
Compliance	EN54-3:2001+A1:2002 + A2:2006
Power Rating	
Input Voltage	Loop Power: 24VDC [18V to 27.5V]
External PSU	24 VDC [20V to 27.5V]
Typical Current	Loop: Standby 0.6mA, Alarm: 1.5mA
Loop and External PSU	Standby 0.6mA, Alarm: 15mA
Saving Current	Standby 1.2mA, Alarm: 9mA
Sounder level Pressure	102 dBA at 1 meter / tone 14
Tone	17 Tones (refers to Manual)

Address Sequence	Single Address: Evacuate tone
Protocol/ Addressing	T&A, Value range from 1 to 254, dual address1st Alert / 2nd Evac
Strobe Light	10 Highlights LED
Material / Colour	ABS / RED Glossy finishing
Dimension / Height	Diameter 110 mm / 39.6 (with Base)
Weight	176g (with Base), 110g (Without Base)
Class	IP30
Operating Temperature	-10°C to +50°C
Ingress Protection Rating	IP21
Humidity	0 to 95% Relative Humidity, Non-condensing

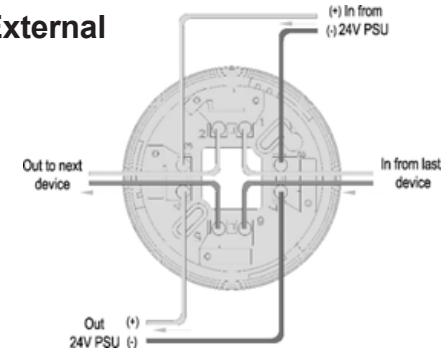
Sounder and Wiring Details



Sounder Base

Terminal Description (24VDC External power supply)

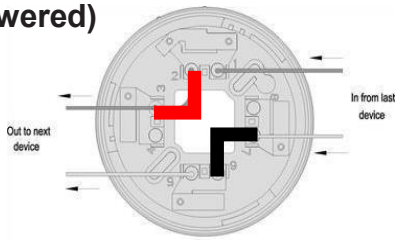
Signal In (+)
Signal Out (+)
External PSU In (+)
External PSU Out (+)
Signal In (-)
Signal Out (-)
External PSU In (-)
External PSU Out (-)



Wiring Details

Terminal Description (Loop Powered)

Signal In (+)
Signal Out (+)
(Jumper (+) between 2 and 3)
Signal In (-)
Signal Out (-)
(Jumper (-) between 6 and 7)



Optional Loop Power Wiring Details

Accessories for TX7300

TX3962E	Weather-proof cover for TX7300 IP rating is 67 for outdoor use

TX7320

Addressable Sounder

Features and Benefits

- EN54-3 Compliance
- Built-in MCU processor and digital addressing
- 17 tones Programmable sound output
- Programmable Evacuate or Pre-alarm/Evacuate signal
- Low and normal consumption mode
- One or Two addresses mode
- Onsite Adjustable Parameters
- Loop or external power input
- Aesthetically pleasing design
- Universal mounting with fix base for simple installation

Overview

The TX7320 Addressable Sounder is alarm warning device used to notify persons in the vicinity of the occurrence fire emergency in order the person to take appropriate measures. The unit adopt multi-application device starting from the types, parameters and wiring layout in single unit. The parameters can be configured according to the requirement which include alarm tone from 17 different tones, single address or dual address mode and also setting of power mode to low current consumption in a simple programming.

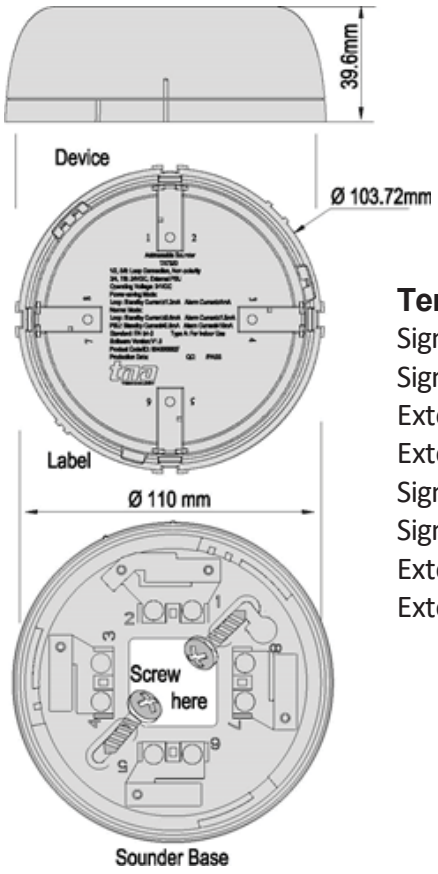
The unit manufactured base on the requirement of EN 54 part 3, European Standard. The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs and its plug-in type assembles make installation and maintenance more convenient to the installer. The unit is compatible to the TX7004 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture T&A, to avoid addressable communication compatibility problem.

Technical Specification

Listed	LPCB Pending
Compliance	EN54-3
Power Rating	
Input Voltage	Loop Power: 24VDC [18V to 27.5V]
External PSU	24VDC [20V to 27.5V]
Typical Current	Loop: Standby 0.6mA, Alarm: 1.5mA
Loop and External PSU	Standby 0.6mA, Alarm: 10mA
Saving Current	Standby 1.2mA, Alarm: 4mA
Protocol/ Addressing	T&A, Value range from 1 to 254
Address Sequence	Single Address: Evacuate tone

Dual Address	1st Alert Tone / 2nd Evacuate tone
Material / Colour	ABS / RED Glossy finishing
Dimension / Height	Diameter 110 mm / 39.6 (with Base)
Weight	180g (with Base), 114g (without Base)
Class	Type A, Indoors
Operating Temperature	-10°C to +50°C
Ingress Protection Rating	IP21
Humidity	0 to 95% Relative Humidity, Non-condensing

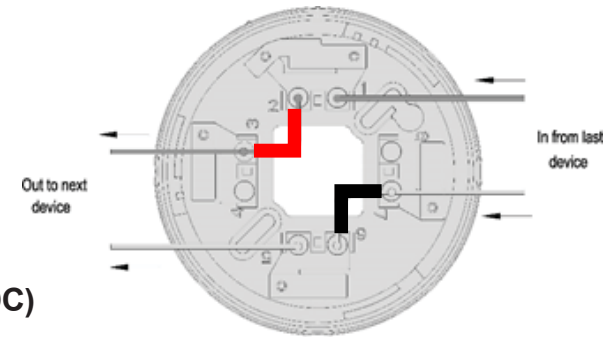
Sounder and Wiring Details



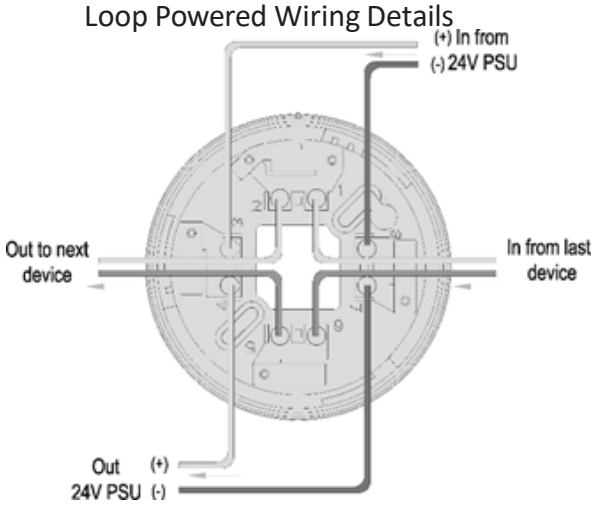
Sounder Base

Terminal Description (24VDC)

Signal In (+)
Signal Out (+)
External PSU In (+) Optional
External PSU Out (+)Optional
Signal In (-)
Signal Out (-)
External PSU In(-)Optional
External PSU Out (-)Optional



Loop Powered Wiring Details



With External Supply Wiring Details

TX7301

Intelligent Sounder and Strobe

Features and Benefits

- EN54-3 Compliance
- Built-in MCU processor and digital addressing
- 17 tones Programmable sound output
- Programmable types such as Sound-er-Strobe, Sounder or Strobe alone
- Programmable Evacuate or Pre-alarm/Evacuate signal
- Low and normal consumption mode
- One or Two addresses mode
- 10 Highlights LED status cluster
- Onsite Adjustable Parameters
- Loop or external power input
- Aesthetically pleasing design
- Universal mounting with fix base for simple installation

Overview

The TX7301 Intelligent Sounder Strobe is alarm warning device used to notify persons in the vicinity of the occurrence fire emergency in order the person to take appropriate measures. The unit adopt multi-application device starting from the types, parameters and wiring layout in single unit. The TX7301 can change into different alarm warning types such as sounder-strobe type, sounder type or strobe type using programming tool. In addition, parameters can be configured according to the requirement which include alarm tone from 17 different tones, single address or dual address mode and also setting of power mode to low current consumption in a simple programming.

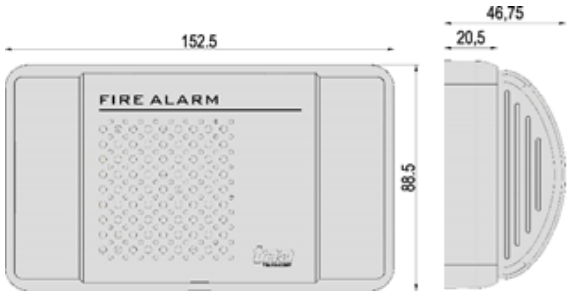
The unit manufactured base on the requirement of EN 54 part 3, European Standard. The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs and its plug-in type assembles make installation and maintenance more convenient to the installer. The unit is compatible to the TX7004 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture T&A, to avoid Intelligent communication compatibility problem.

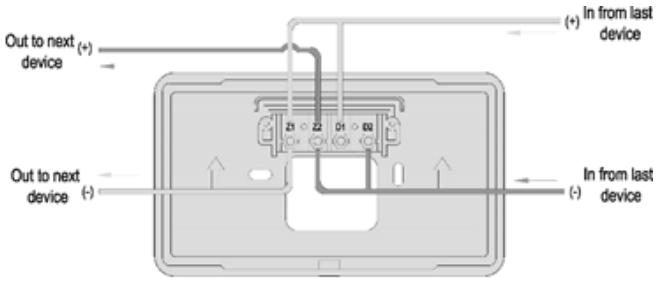
Technical Specification

Compliance	EN54-3
Power Rating	
Input Voltage	Loop Power: 24VDC [18V to 27.5V]
External PSU	24 VDC [20V to 27.5V]
Typical Current	Loop: Standby 0.7mA, Alarm: 1.5mA
Loop and External PSU	Standby 0.6mA, Alarm: 17mA
Saving Current	Standby 1.2mA, Alarm: 9mA
Sounder Strobe	
Sounder level Pressure	102 dBA at 1 meter
Tone	17 Tones (refers to Manual)
Protocol/ Addressing	T&A, Value range from 1 to _254, dual address1st Alert / 2nd Evac

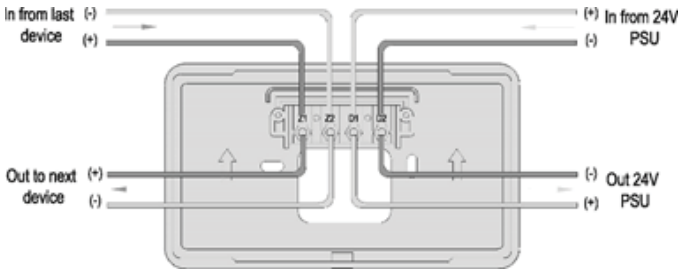
Strobe Light	10 Highlights LED
Material / Colour	ABS / RED Glossy finishing
Dimension / Height	L:152.5 x W:88.5 x H:46.75 mm (without base)
Weight	184g (with Base), 124g (Without Base)
Class	Type A, Indoors
Operating Temperature	-10°C to +50°C
Ingress Protection Rating	IP21
Humidity	0 to 95% Relative Humidity, Non condensing

Module and Wiring Details





Loop Powered Wiring Details



With External Supply Wiring Details

Terminal Description

Z1 Signal In (+)

Z1 Signal Out (+)

Z2 Signal In (-)

Z2 Signal Out (-)

D1 External PSU In (+) Optional

D2 External PSU In(-)Optional

TX7200

Addressable Input Module

Features and Benefits

- EN54-18 Compliance
- LPCB Pending
- Built-in MCU processor and digital addressing
- Fire or Supervisory signal configuration
- Input cable monitored
- Normally open configuration
- LED status indicator
- Loop powered device
- Aesthetically pleasing design
- Surface mounting with fix base for simple installation

Overview

The TX7200 Addressable Input Module is used to acknowledge normally open monitor signal from interface equipment then sending communication signal to the control panel, ideally for monitoring sprinkler system, pressure switch, position switch, signal valves and other third party equipment such as conventional panel.

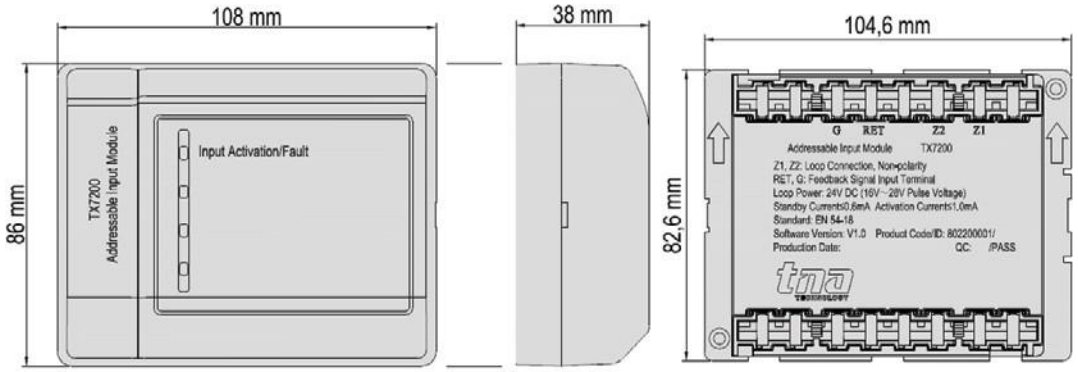
The unit manufactured base on the requirement of EN 54 part 18, European Standard. The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs and its plug-in type assembles make installation and maintenance more convenient to the installer. The unit incorporates an intelligent processor that provides automatic monitoring for both open and short circuit of the input signal line. The TX7200 Input Module is compatible to the TX7004 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture T&A, to avoid addressable communication compatibility problem.

Technical Specification

Listed	LPCB Pending
Compliance	EN54-18:2005/AC2007
Power Rating	
Input Voltage	24VDC [16V to 28V]
Current Consumption Standby	0.6mA, Alarm: 1.0Ma
Module	
Protocol/ Addressing	T&A, Value range from 1 to 254
Input Relay	Normally Open dry contact
Input Resistance	5.1Kohms/ ¼ W
Indicator Status	Normal: Single blink/Active: Steady/Fault: Double Blink

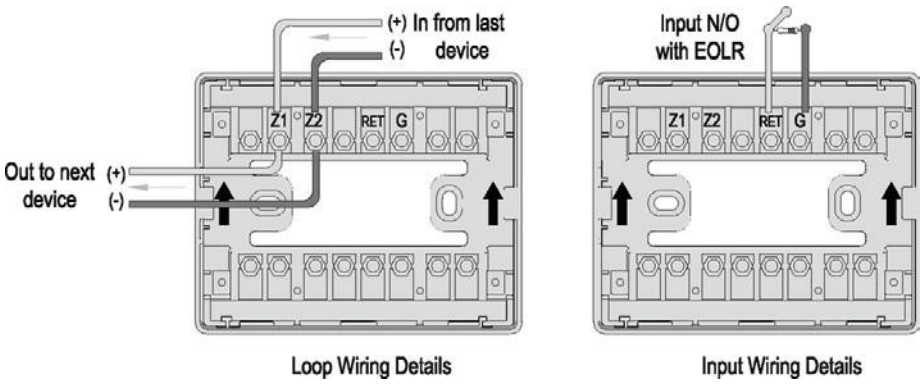
Material / Colour	ABS / White Glossy finishing
Dimension / LWH	108 mm x 86 mm x38 mm
Weight	155g (with Base), 85g (without Base)
Operating Temperature	-10°C to +50°C
Ingress Protection Rating	IP30
Humidity	0 to 95% Relative Humidity, Non condensing

Module and Wiring Details



Terminal Description

Z1 Signal In (+)
Z1 Signal Out (+)
Z2 Signal In (-)
Z2 Signal Out (-)
RET Input Cable
G Input Cable
Note: Fit 5.1Kohms (1/4W) Resistor at the end of the cable.



TX7201

Addressable Zone Monitor Module

Features and Benefits

- EN54-18 Compliance
- Built-in MCU processor and digital addressing
- Intelligent self-diagnosis of open circuit
- Enhanced capacity of interference resistance by using multilevel wave filtering process
- LED status indicator
- Onsite Adjustable Parameter
- Loop and external power input
- Aesthetically pleasing design
- Parallel connecting up to 16 conventional detector
- Unit mounting with fix base for simple installation

Overview

TX7201 Addressable Zone Monitor unit is an addressable interface module, which will integrate conventional detectors or conventional manual call points to addressable system. When any of the connected devices alarms are active, the unit can send the alarm message to fire alarm controller, which generates alarm signal and displays its address. The unit can match with the conventional optical smoke detector, conventional rate of rise and fixed temperature detector and conventional manual call point etc. It has the function of checking short or open circuit of the output connection, by the End of Line Resistor (EOLR). The fault massage includes open circuit, short circuit or any removal of the detectors.

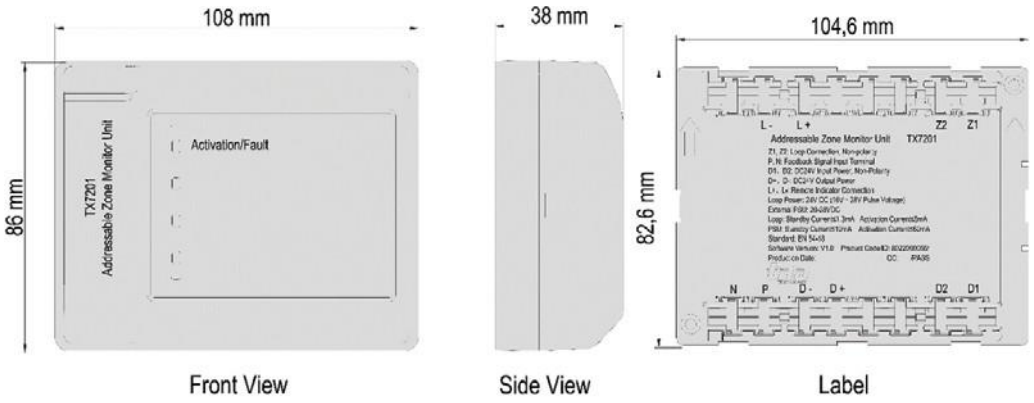
The unit manufactured base on the requirement of EN 54 part 18, European Standard. The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs and its plug-in type assembles make installation and maintenance more convenient to the installer. The unit is compatible to the TX7004 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture T&A, to avoid addressable communication compatibility problem.

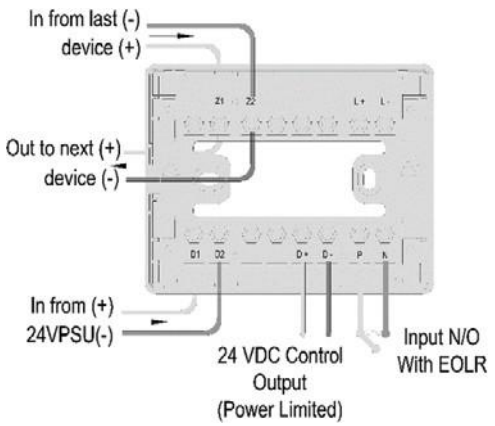
Technical Specification

Listed	LPCB Pending
Compliance	EN54-18:2005/AC2007
Power Rating	
Input Voltage	Loop Power:24VDC [16V to 28V]
External PSU	20 to 28VDC
Current Consumption	Loop: Standby 1.3mA, Alarm: 5mA
External PSU	Standby10mA, Alarm: 60mA
Control output voltage	24VDC (Only for the use of TX7130, do not allow the short circuit)
Module	
End of line Resistance	5.1Kohms/ ¼ W
Protocol/ Addressing	T&A, Value range from 1 to 254

Indicator Status	Normal: Single blink/Active: Steady/Fault: Double Blink
Material / Colour	ABS / White Glossy finishing
Dimension / LWH	108 mm x 86 mm x38 mm
Weight	154g (with Base), 83g (without Base)
Operating Temperature	-10°C to +50°C
Ingress Protection Rating	IP30
Humidity	0 to 95% Relative Humidity, Non condensing

Module and Wiring Details





Terminal Description

Z1 Signal In (+)
Z1 Signal Out (+) Z2 Signal In (-)
Z2 Signal Out (-)
P connect detectors, Non-polarity
N connect detectors, Non-polarity
D1 External Power Supply In (+)
D2 External Power Supply In (-)
D+, D- Output Cable(Only for the use of TX7130)
L+ Remote Indicator (+)
L- Remote Indicator (-)

TX7210

Addressable Single Input/Output Module

Features and Benefits

- EN54-18:2005 Compliance
- LPCB Approved
- Built-in MCU processor and digital addressing
- 24Vdc/3A Output relay contact and Control module
- Input Fire or Supervisory signal configuration
- LED status indicator
- Onsite Adjustable Parameter
- Loop or external power input
- Aesthetically pleasing design

Surface mounting with fix base for simple installation

Overview

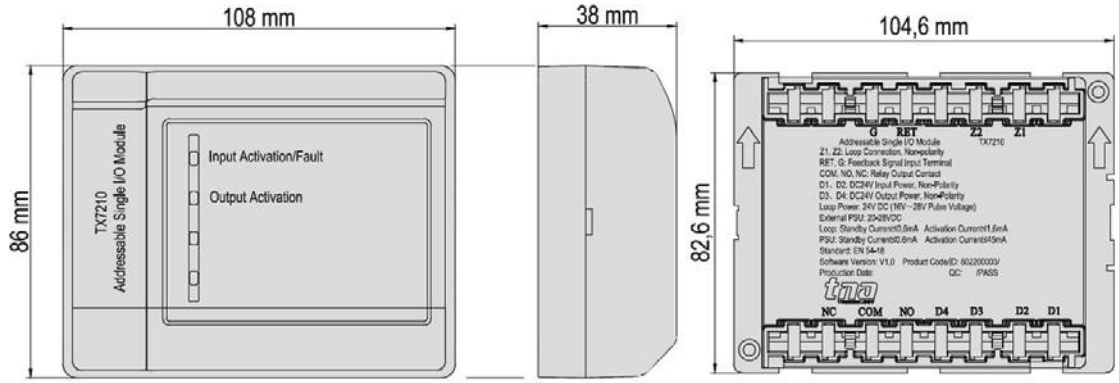
The TX7210 Addressable Single Input/output Module is characterized as one input or output volt free relay and control module. The unit is normally used for overriding equipment such as lift return, door holder, smoke extract fans, air handling unit, auto dialler to fire brigade, BMS and etc. The unit has built-in feedback signal feature, according to the pre-configured interface module command fire scenario, the alarm controller send out start command to the equipment required to start. After receiving the command, output module enables its relay to change state. Once the module is under control and operated a confirmation signal will be sending back to the alarm controller. In addition, the unit incorporates an intelligent processor that provides automatic monitoring for both open and short circuit of the input signal line.
The unit manufactured base on the requirement of EN 54 part 18, European Standard. The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs and its plug-in type assembles make installation and maintenance more convenient to the installer. The unit is compatible to the TX7004 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture T&A, to avoid addressable communication compatibility problem.

Technical Specification

Listed	LPCB / CE-CPR
Compliance	EN54-18:2005
Power Rating	
Input Voltage	Loop Power:24VDC [16V to 28V]
External PSU	20 to 28VDC
Current Consumption	Loop: Standby 0.6mA, Alarm: 1.6mA
External PSU	Standby 0.6mA, Alarm: 45mA
Control output voltage	24VDC / 2A rating
Module	
24VDC / 2A rating	Normally Open dry contact
Input Resistance	5.1Kohms/ ¼ W

Protocol/ Addressing	T&A, Value range from 1 to 254
Indicator Status	Normal: Single blink/Active: Steady/Fault: Double Blink
Material / Colour	ABS / White Glossy finishing
Dimension / LWH	108 mm x 86 mm x38 mm
Weight	170g (with Base), 92g (without Base)
Operating Temperature	-10°C to +50°C
Ingress Protection Rating	IP30
Humidity	0 to 95% Relative Humidity, Non condensing

Module and Wiring Details



Front View Side View Label

Terminal Description

Z1 Signal In (+)
Z1 Signal Out (+)
Z2 Signal In (-)
Z2 Signal Out (-)
RET Input Cable
G Input Cable

D1 External Power Supply In (+)
D2 External Power Supply In (-)
D3 Not Use
D4 Not Use
COM Output Cable
NO, NC Output Cable

Module and Wiring Details

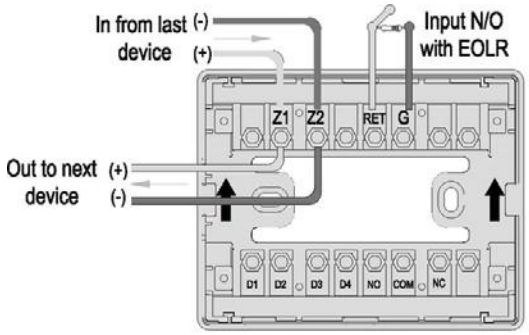


Figure 1: Input Wiring Details Note: Change the parameter Input Check into 3Y
(Loop Powered)

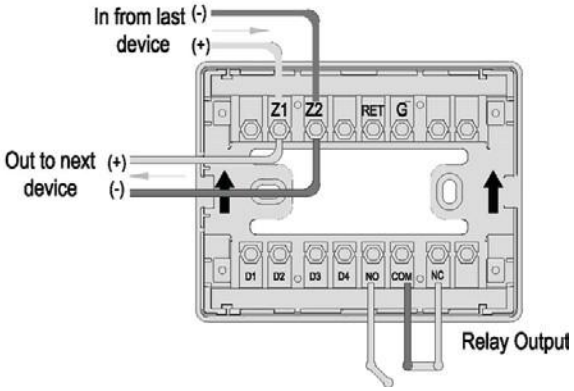


Figure 2: Relay Output Wiring Details
(Loop Powered) mostly used

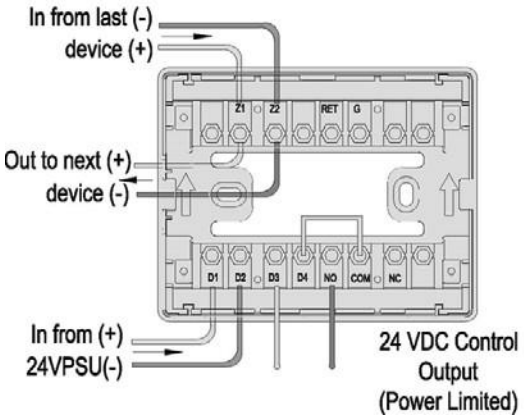


Figure 3: Control Output Wiring Details
(Required External Power Supply)

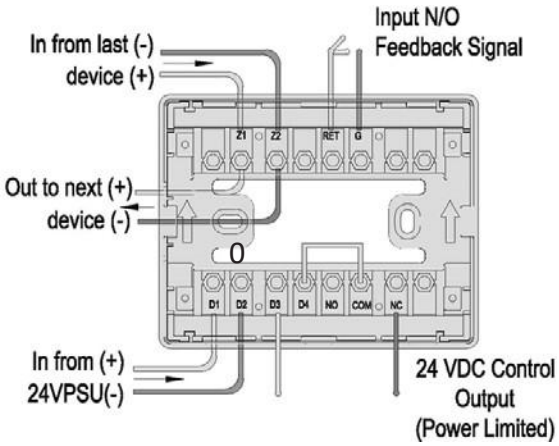


Figure 4: Control Output with Feedback Signal Wiring Details
(Required External Power Supply)

TX7211

Addressable Sounder Circuit Module

Features and Benefits

- Built-in MCU processor and digital addressing
- Intelligent self-diagnosis of open circuit
- Enhanced capacity of interference resistance by using multilevel wave filtering process
- LED status indicator
- Onsite Adjustable Parameter
- Loop and external power input
- Aesthetically pleasing design

Overview

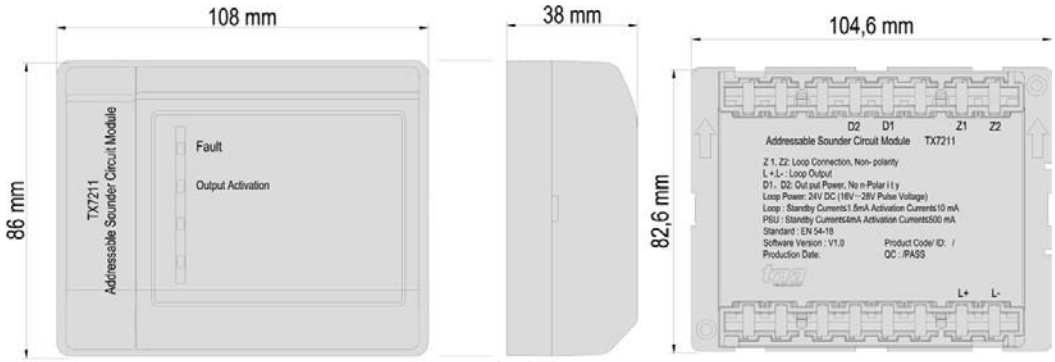
TX7211 Addressable Sounder Circuit Module unit is an addressable interface module, which will integrate conventional sounders or fire bell to addressable system. There are four signal output modes that can be selected according to the user requirement. It has the function of checking short or open circuit of the output connection, by the End of Line Resistor (EOLR). The fault massage includes open circuit, short circuit or any removal of the alarm device warning.
The unit manufactured base on the requirement of EN 54 part 18, European Standard. The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs and its plug-in type assembles make installation and maintenance more convenient to the installer. The unit is compatible to the TX7004 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture Tanda to avoid addressable communication compatibility problem.

Technical Specification

Compliance	EN54-18:2005/AC2007
Operating Voltage	Loop: Loop 24V (16V~28V) Power:24VDC(20VDC~28VDC)
Current Consumption	Loop: Standby 1.5mA, Alarm: 10mA
External PSU	Standby4mA, Alarm: 500mA
Alarm Mode	4 modes
End of line Resistance	5.1Kohms/ ¼ W
Programming Method	Electronically addressed with 1~242, occupies one or two addresses.
Indicator Status	Fault LED: red, flashes when polling, flashes twice when the circuit is short, broken or 24V power off. Output Activation LED: red, illuminates when start.

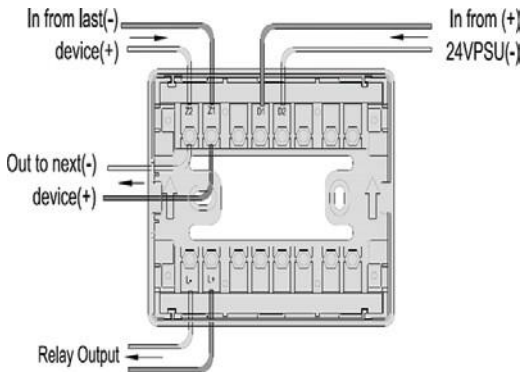
Material / Colour	ABS / White Glossy finishing
Dimension / LWH	108 mm x 86 mm x38 mm
Weight	154g (with Base), 83g (without Base)
Operating Temperature	-10°C to + 50°C
Weight	170g (with Base), 92g (without Base)
Ingress Protection Rating	IP30
Humidity	0 to 95% Relative Humidity, Non condensing

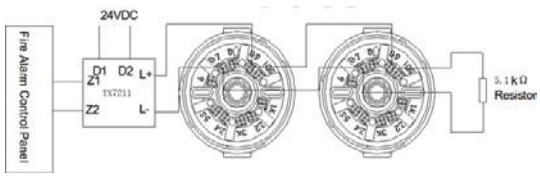
Module and Wiring Details



Terminal Description

Z1 Signal In/Out (+) polarity;
Z2 Signal In/Out (-)
D1 External Power Supply (+)
D2 External Power Supply (-)
L+ Sounder Output (+)
L- Sounder Output (-)





TX7220

Addressable Dual Input/Output Module

Overview

The TX7220 Addressable Dual Input/output Module is characterized as two inputs or outputs volt free relay and control module. The unit is normally used for overriding equipment such as lift return, door holder, smoke extract fans, air handling unit, auto dialler to fire brigade, BMS and etc. The unit has built-in feedback signal feature, according to the pre-configured interface module command fire scenario, the alarm controller send out start command to the equipment required to start. After receiving the command, output module enables its relay to change state. Once the module is under control and operated a confirmation signal will be sending back to the alarm controller. In addition, the unit incorporates an intelligent processor that provides automatic monitoring for both open and short circuit of the input signal line.

The unit manufactured base on the requirement of EN 54 part 18, European Standard. The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs and its plug-in type assembles make installation and maintenance more convenient to the installer. The unit is compatible to the TX7004 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture T&A, to avoid addressable communication compatibility problem.

Features and Benefits

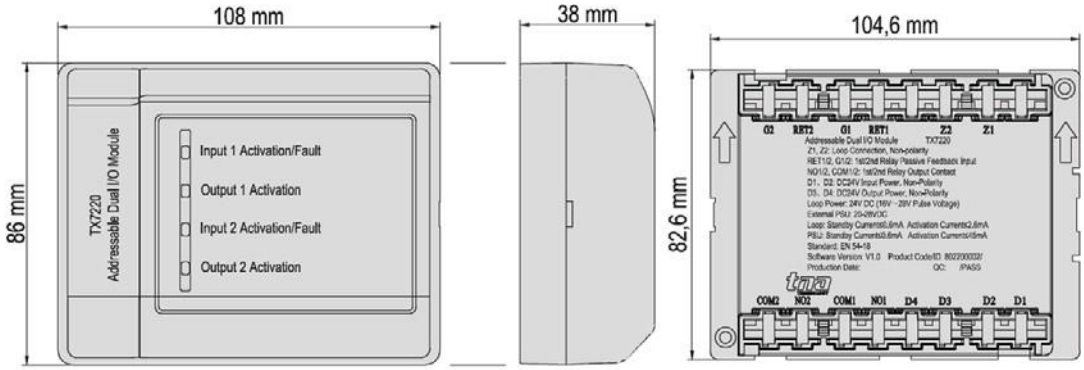
- EN54-18 Compliance
- Built-in MCU processor and digital addressing
- Two circuits 24Vdc/3A Output relay contact and Control module
- Two circuits Input Fire or Supervisory signal configuration
- Dis/Enable Input and output cable monitored
- LED status indicator
- Onsite Adjustable Parameter
- Loop or external power input
- Aesthetically pleasing design
- Surface mounting with fix base for simple installation

Technical Specification

Listed	LPCB Pending
Compliance	EN54-18:2005/AC2007
Power Rating	
Input Voltage	Loop Power:24VDC [16V to 28V]
External PSU	20 to 28VDC
Current Consumption	Loop: Standby 0.6mA, Alarm: 2.6mA
External PSU	Standby 0.6mA, Alarm: 45mA
Control output voltage	24VDC / 3A rating (per circuit)
Module	
Input Relay	Normally Open dry contact
Input Resistance	5.1Kohms/ ¼ W

Protocol/ Addressing	T&A, Value range from 1 to 254
Indicator Status	Normal: Single blink/Active: Steady/Fault: Double Blink
Material / Colour	ABS / White Glossy finishing
Dimension / LWH	108 mm x 86 mm x38 mm
Weight	182g (with Base), 100g (without Base)
Operating Temperature	-10°C to +50°C
Ingress Protection Rating	IP30
Humidity	0 to 95% Relative Humidity, Non condensing

Module and Wiring Details



Terminal Description

Signal In (+)
Z1 Signal Out (+)
Z2 Signal In (-)
Z2 Signal Out (-)
RET 1 Input Cable (Circuit 1); RET 2 Input Cable (Circuit 2)
G 1 Input Cable (Circuit 2); G 2 Input Cable (Circuit 2)
D1 External Power Supply In (+)
D2 External Power Supply In (-)
D3 Not Use
D4 Not Use
COM1 Output Cable (Circuit 1);
COM2 Output Cable (Circuit 2)
NO1 Output Cable (Circuit 1);
NO2 Output Cable (Circuit 2)

Module and Wiring Details

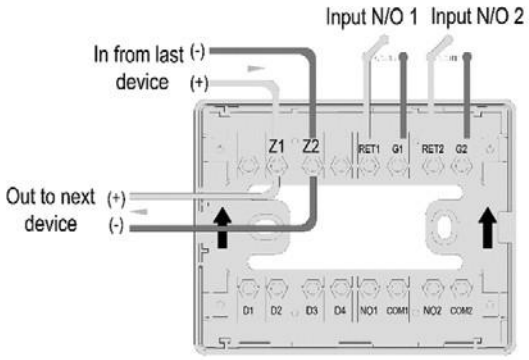


Figure 1: Input Wiring Details Note: Change the parameter Input Check into 3Y
(Loop Powered)

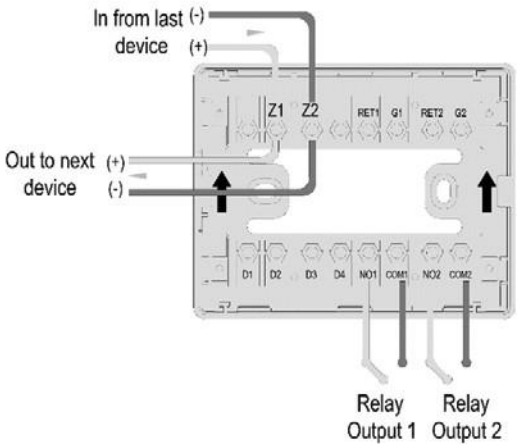


Figure 2: Relay Output Wiring Details
(Loop Powered) mostly used

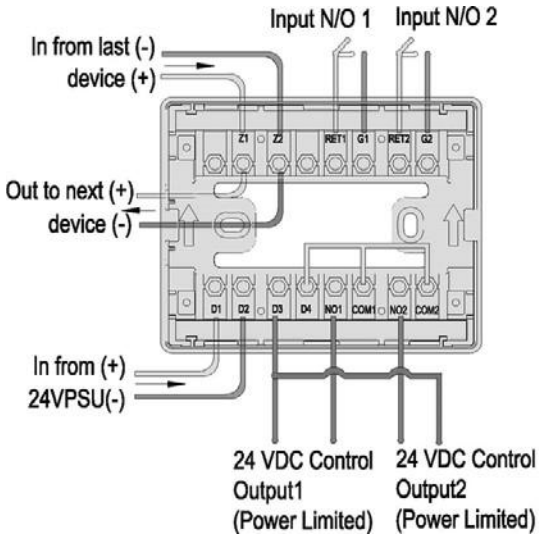


Figure 3: Control Output Wiring Details
(With External Power Supply)

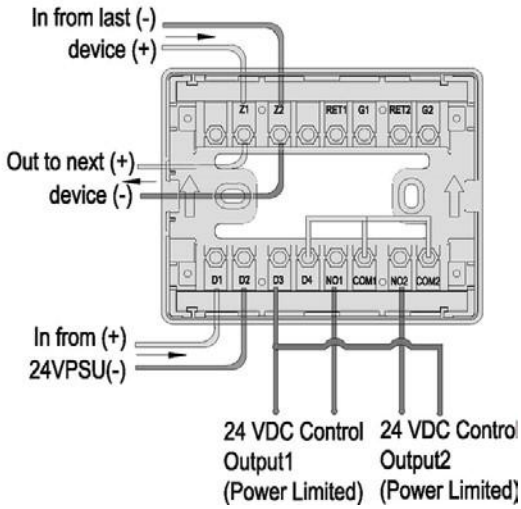


Figure 4: Control Output with Feedback Signal Wiring Details
(With External Power Supply)

TX7230

Isolator Module

Features and Benefits

- EN54-17:2005 Compliance
- LPCB Approved
- In the event of a short circuit isolates faulty parts of the loop.
- Automatically resetting once the fault has been cleared
- Can monitor up to 70 devices
- LED status indicator
- Loop powered device
- Aesthetically pleasing design

Surface mounting with fix base for simple installation

Overview

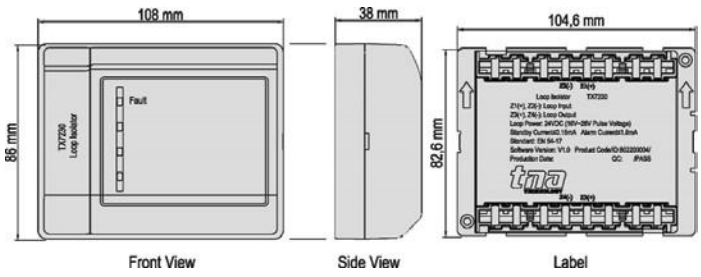
The TX7230 manufactured base on the requirement of EN 54 part 17, European Standard. In the event of short circuit on the detection loop the TX7230 Isolators either side of the loop will detect the problem and open circuit and isolates the faulty part of the loop, enabling other devises on the unaffected part of the loop to operate normally. The module will continue to monitor for the fault to be repaired, once the fault is cleared the isolator will automatically reinstate the effected part of the loop.

The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs and its plug-in type assembles make installation and maintenance more convenient to the installer. The TX7230 Isolators Module is compatible to the TX7004 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture T&A, to avoid addressable communication compatibility problem.

Technical Specification

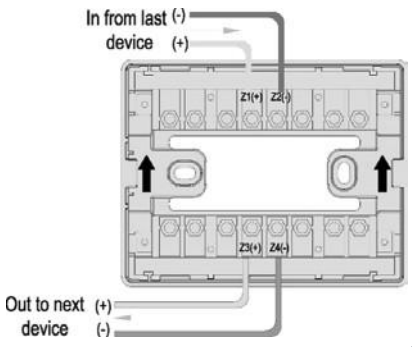
Listed	LPCB / CE-CPR
Compliance	EN54-17:2005
Power Rating	
Input Voltage	24VDC [16V to 28V]
Current Consumption	Standby 0.15mA, Alarm: 1.8Ma
Maximum Open Voltage (VSO MAX)	11V
Minimum Open Voltage (VSO MIN)	8V
Maximum Close Voltage (VSC MAX)	3V
Minimum Close Voltage (VSC MIN)	1.4V
Maximum Continuous Current (IC MAX)	500mA
Maximum Transient Output Current (IS MAX)	5A
Maximum Leakage Current (IL MAX)	2mA
Max closed impedance (ZC MAX)	0.65 ohms
Humidity	0 to 95% Relative Humidity, Non condensing

Module	
Protocol	T&A
Number of monitored	Max 70 Devices
Output Impedance	480 ohms
Indicator Status	Normal: Single blink/Active: Steady-on
Material / Colour	ABS / White Glossy finishing
Dimension / LWH	108 mm x 86 mm x38 mm
Weight	152g (with Base), 81g (without Base)
Ingress Protection	IP30
Humidity	0 to 95% Relative Humidity, Non condensing



Terminal Description

Z1 Signal In (+)
Z1 Signal Out (+)
Z2 Signal In (-)
Z2 Signal Out (-)



TX7222

Addressable Zone monitor and sounder circuit module

Features and Benefits

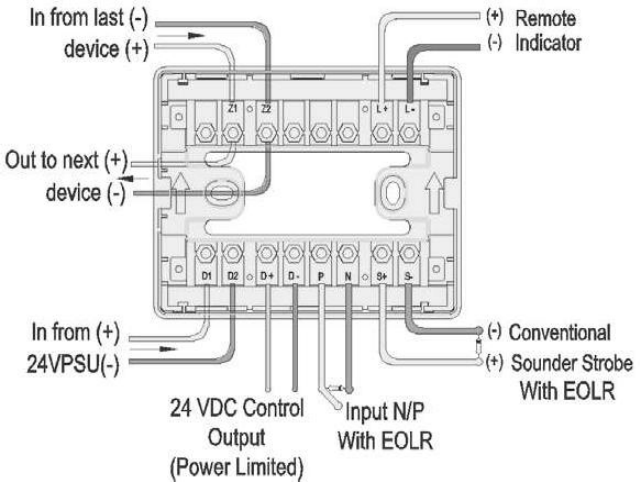
- TÜV certified according to EN 54-18:2005 EN 54-18:2005/AC:2007.
- Built-in MCU processor and digital addressing.
- Intelligent self-diagnosis of open circuit
- Onsite Adjustable Parameter
- Loop and external power input
- Module mounting with a fixed base for simple installation

Power Rating	
Input Voltage	Loop Power:24VDC [16V to 28V] External PSU: 20 to 28VDC
Current Consumption	Loop: Standby: 1.5mA, Alarm: 6mA External PSU: Standby15mA, Alarm: 500mA
Control output voltage	24VDC (Only for the use of TX7130, The normally open output)
End of line Resistance	5.1Kohms/ ¼ W
Protocol/ Addressing	T&A, Value range from 1 to 254
Indicator Status	Alarm LED: red, Normal: Single blink/Alarm: Steady Fault LED: yellow, Normal: Not bright/Fault: Steady Activation LED: red, Normal: Not bright/Active: Steady

Overview

The TX7222 is a compact addressable interface module designed to connect conventional detectors, manual call points, and conventional sounder/strobe circuits to an addressable fire alarm system. When any connected device enters alarm condition, the module transmits the corresponding addressable alarm signal to the fire alarm control panel. Featuring a modern, unobtrusive design and plug-in structure, the TX7222 allows quick installation and easy maintenance. It is fully compatible with the TX7004 Analogue Intelligent Fire Alarm Control Panel from TANDA, ensuring seamless communication and system integration.

Weight	162g (with Battery and base)
Material/Color	ABS / white Glossy
Dimension / LXHXW	108mm x 86mm x 38mm
Operating Temperature	-10°C to +55°C
IP rating	30
Humidity	0 to 95% Relative Humidity, Non-condensing



TX7990

Backbox

Features and Benefits

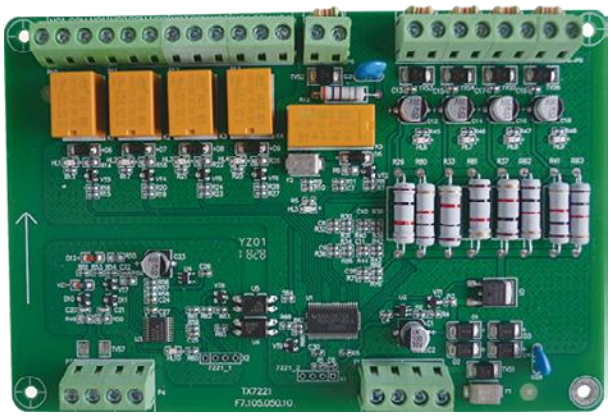
- Backbox compatible for TX72 Module Series
- Constructed using high quality plastic.
- No electrical circuit.
- Fit on one gang backbox.
- Easy to install.

Overview

The TX7990 is used for all TX72 series of addressable modules to provide surface mount installation. This box back has a two knock holes for cable entrance.

Technical Specification

Material / Colour	ABS / White
Dimension / LWH	108 mm x 86 mm x 40 mm
Gross Weight	0.20Kg
Operating Environment	
Temperature	-5℃~+40℃
Relative Humidity	≤95%, non-condensin



TX7221

Addressable 4-input /4-output Multi-Module

Features and Benefits

- EN54-18 Compliance
- Built-in MCU processor and digital addressing
- Enhanced capacity of interference resistance by using multilevel wave filtering process
- Four circuits 24Vdc/3A Output relay contact
- One sounder circuit output.
- Four circuits Input Fire or Supervisory signal configuration
- Parallel connecting to 16 conventional detectors
- Input Cable monitored
- LED status indicator

Overview

The TX7221 Addressable 4 Input/ 4output Module is characterized as 4 inputs power limited and 4 outputs volt free relay with additional sounder circuit output. The output relay is normally used for overriding equipment such as lift return, door holder, smoke extract fans, air handling unit, auto dialler to fire brigade, BMS and etc. Also, the input circuit is used to acknowledge normally open monitor signal from interface equipment then sending communication signal to the control panel, ideally for monitoring sprinkler system, pressure switch, position switch, signal valves and other third-party equipment such as conventional panel. In addition, the unit incorporates an intelligent processor that provides automatic monitoring for both open and short circuit of the input signal line. All interfaces can be seen on the panel and can be configured on the command builder to create requirement for fire event scenario, as each circuit has it own unique address, this module occupied 9 address.

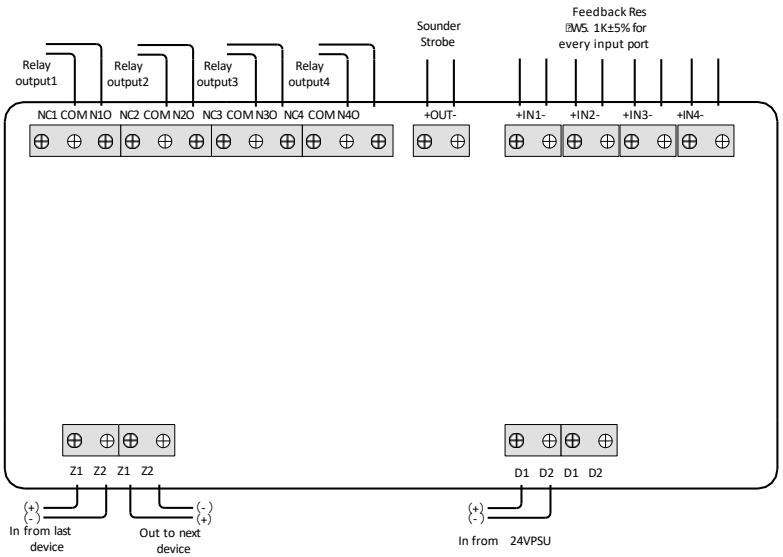
The unit manufactured base on the requirement of EN 54 part 18, European Standard. The TX7221 Module is compatible to the TX7004 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture T&A, to avoid addressable communication compatibility problem.

Technical Specification

Power Rating	
Input Voltage	Loop Power:24VDC [18V to 28V]
External PSU	20 to 28VDC
Current Consumption	Standby 1.5mA, Alarm: 25mA (at 4 active relays)
Module	
Output Relay	4 Circuit: Normally Open/ Close dry contact
Control output voltage	24VDC / 3A rating (per circuit)
Sounder Circuit Output	24VDC Power Limited
Input Relay	4 Circuit: Normally Open dry contact
Input Resistance	5.1Kohms/ ¼ W

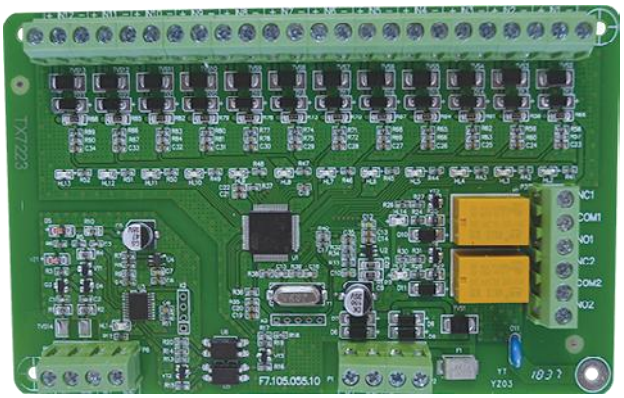
Protocol/ Addressing	T&A, Occupied 9 address
Indicator Status	Normal: Single blink/Active: Steady/Fault: Double Blink
Material	PCB
Dimension	150 mm x 100 mm
Weight	360 g
Operating Temperature	-10°C to +50°C
Humidity	0 to 95% Relative Humidity, Non condensing

Module and Wiring Details



Terminal Description

Z1 Signal In (+)
Z1 Signal Out (+)
Z2 Signal In (-)
Z2 Signal Out (-)
D1 External Power Supply In (+)
D2 External Power Supply In (-)
NC1_COM_NO1 (Relay1): Output
NC2_COM_NO2 (Relay2): Output
NC3_COM_NO3 (Relay3): Output
NC4_COM_NO4 (Relay4): Output
Out: Sounder Circuit Output
IN1 (Relay 1): Normally Open Input
IN2 (Relay 2): Normally Open Input
IN3 (Relay 3): Normally Open Input
IN4 (Relay 4): Normally Open Input



TX7223

Addressable 12-input / 2-output Multi-Module

Features and Benefits

- Built-in MCU processor and digital addressing
- 12 circuits Input Fire or Supervisory signal configuration
- 2 circuits 24Vdc/3A Output relay contact and a Control module
- Dis/Enable Input and output cable monitored
- LED status indicator
- Onsite Adjustable Parameter

Overview

The TX7223 Addressable 12 Input/ 2output Module is characterized as 12 inputs power limited and 2 outputs volt free relay. It is used to acknowledge normally open monitor signal from interface equipment then sending communication signal to the control panel, ideally for monitoring sprinkler system, pressure switch, position switch, signal valves and other third-party equipment such as conventional panel. The output relay is normally used for overriding equipment such as lift return, door holder, smoke extract fans, air handling unit, auto dialler to fire brigade, BMS and etc.. In addition, the unit incorporates an intelligent processor that provides automatic monitoring for both open and short circuit of the input signal line. All interfaces can be seen on the panel and can be configured on the command builder to create requirement for fire event scenario, as each circuit has it own unique address, this module occupied 14 address.

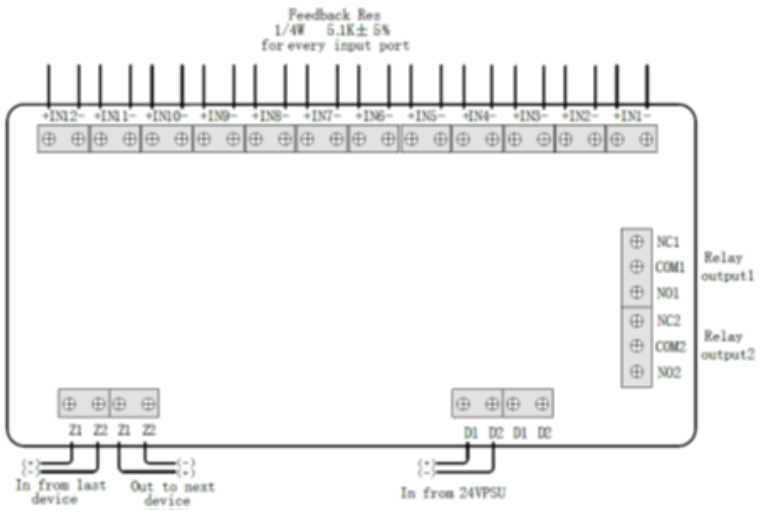
The unit manufactured base on the requirement of EN 54 part 18, European Standard. The TX722 Module is compatible to the TX7004 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture T&A, to avoid addressable communication compatibility problem.

Technical Specification

Power Rating	
Input Voltage	Loop Power:24VDC [21V to 28V]
External PSU	20 to 28VDC
Current Consumption	Standby 1.5mA, Alarm: 40mA (monitoring current)
Module	
Input Relay	12 Circuit: Normally Open dry contact
Input Resistance	5.1Kohms/ ¼ W
Relay Output	24VDC Power Limited
Input Relay	2 Circuit: Normally Open/ Close dry contact
Protocol/ Addressing	T&A, Occupied 14 address

Indicator Status	Normal: Single blink/Active: Steady/Fault: Double Blink
Material	PCB
Dimension	142 mm x 90 mm
Weight	350 g
Operating Temperature	-10°C to +50°C
Humidity	0 to 95% Relative Humidity, Noncondensing

Module and Wiring Details



Terminal Descriptions:

Z1 Signal In (+)
Z1 Signal Out (+)
Z2 Signal In (-)
Z2 Signal Out (-)
D1 External Power Supply In (+)
D2 External Power Supply In (-)
NC1_COM_NO1 (Relay1): Output
NC2_COM_NO2 (Relay2): Output
IN1 (Relay 1): Normally Open Input
IN2 (Relay 2): Normally Open Input
IN3 (Relay 3): Normally Open Input
IN4 (Relay 4): Normally Open Input
IN5 (Relay 5): Normally Open Input
IN6 (Relay 6): Normally Open Input
IN7 (Relay 7): Normally Open Input
IN8 (Relay 8): Normally Open Input
IN9 (Relay 9): Normally Open Input
IN10 (Relay 10): Normally Open Input
IN11 (Relay 11): Normally Open Input
IN12 (Relay 12): Normally Open Input

TX7240

Relay Module

Features and Benefits

- EN54-18 Compliance
- Built-in MCU processor
- Aesthetically pleasing design
- LED status indicator

Overview

The TX7240 Loop Relay Module operates on DC 24V and uses an internal electrical isolation circuit to ensure stable, real-time transmission between input and output bus signals. It enhances bus anti-interference performance and extends communication distance, making it ideal for installations exposed to high external interference or requiring long-distance signal transmission. Designed and manufactured in accordance with EN 54-18 standards, the unit features a clean, unobtrusive appearance suitable for modern buildings. Its plug-in structure ensures easy installation and maintenance. The TX7240 is fully compatible with the TX7004 Analogue Intelligent Fire Alarm Control Panel, produced exclusively by T&A, ensuring seamless addressable communication without compatibility issues.

Power Rating	
Input Voltage	Loop Power:24VDC [16V to 28V] External PSU: 20 to 28VDC
Current Consumption	Loop: ≤5mA External PSU: ≤500mA
Bus Range	Input: ≤1000m Output: ≤1000m
Protocol/ Addressing	T&A, Value range from 1 to 254
Indicator Status	Normal: Single blink/Fault: Steady-on

Weight	162g (with Battery and base)
Material/Color	Metal / Gray
Dimension / LXHXW	155mm x 97mm x 40mm
Operating Temperature	-10°C to +55°C
Humidity	0 to 95% Relative Humidity, Non-condensing

TX7932
Handheld Programmer

Features and Benefits

- Write, read and erase device parameters
- Pluggable cable with end alligator clip to hold tight the terminals
- LCD display and functional keys
- Low current consumption for a longer battery lifespan
- Circuit protection against clip
- Auto power-off within 5 minutes

Overview

The TX7932 is the general-purpose programming tool used for TX7000 family products (fire alarm system) and TN7 family products (fire telephone system). This unit is designed to suit entering device parameters such as address, sensitivity, mode, and types to meet the site situation and environmental requirements. In addition, the programmer is capable of reading the previously encoded parameters to use for testing applications and troubleshooting purposes.

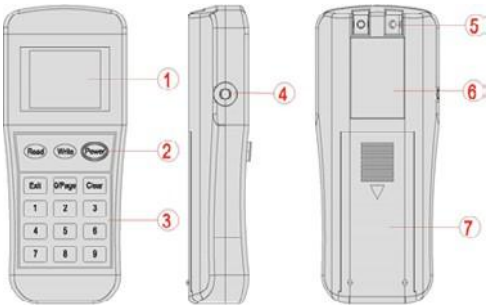
The TX7930 is miniature, and its robust design makes it convenient to bring into the workplace. The programmer is packed with twin

1.5V AA battery and cable, ready for usage once received. Easy to understand the display and with functional keys allow easy single-button activation of the commonly used parameters.

Technical Specification

Battery Required	2X1.5 AA / Included
Current Consumption	Standby 0μA, In-use: 3mA
Protocol	T&A
Material / Colour	ABS / Grey Glossy finishing
Dimension / LWH	130 mm x 54 mm x28 mm
Humidity	0 to 95% Relative Humidity, Non condensing

Names and Location



Data Display	16 Characters, four-segment display shows the device address, set types and mode and ID value
Function Key	Allow easy single-button activation of the commonly used parameters such as exit, clear, page, read, and write functions
Numerical Key	0 to 9 keys used to enter numeric values
Jack Socket	Location for male connector of programming cable
Loop Terminal	Connection to signaling loop used for testing the loop wiring
Label	Programmer details and specification
Battery Compartment	Location for programmer batteries

TX7812

Graphical Monitor Centre Software

Features and Benefits

- Easy to use, direct and complete fire alarm graphic software
- Dongle activation key
- Auto Display of all kinds of events such as Fire, Pre-alarm, Action, Supervisory, Disable and Fault in different color.
- Display the full device details, time of alarm and location and save directly mainte- nance record folder.
- Multiple users can monitor and control at the same time
- User privileges can be defined
- Support remote control of control panel
- Support common toolbar for quick operation
- Support up to 8 client users

System Capacity

Graphical display device software is composed of two parts, server and clients. Server as a bridge between the controller and the client, is mainly used to manage communications between the client and the controller, set user permissions, verify the legitimacy of the user, and record user login information, and a controller connection status. The client is mainly used to receive the status information of the field equipment which is uploaded by the controller. It is displayed in real time and classification and record the fire alarm information and the system operation log.

Overview

With TX7004 controller design a new set of software engineering monitoring system, provide software architecture designed to meet various requirements of stand-alone monitoring system, network and other aspects of the system, the system is easy to operate and interface.

The graphic display device relates to the fire alarm controller through the USB port, and relates to the remote monitoring clients through TCP/IP LAN topology, so as to realize the real-time monitoring of the fire alarm controller and the field equipment information.

Activating the GMC Software

A Dongle is a USB that acts as an activation key, GMC software is in the download e-mail that was sent when the purchase was made. Once the software is installed, plugged the USB in the machine, the server software should straight read the code and is now activated. The dongle must be kept in the machine at all times to keep the server running. For any questions or concerns, please contact TNA distributor directly.

Technical Specification

Operating Software	Windows 7, 8 and Windows 1
CPU	P4 1G or Higher
RAM	2G
HDD	8G
System Type	32 or 64 Bit OS

TX24-5A

Intelligent Power Supply Unit

Features and Benefits

- EN54-4 Compliance
- Intelligent 5A Power supply unit
- Can sit on the loop to monitor by the Fire control panel
- Digital display showing output voltage and load current
- Overload, overcharge and over usage protection
- Fully Monitored with Self-test function
- Wall mount installation

Technical Specification

Compliance	EN54-4
Power Rating	
Power Supply	Mains: AC220V (110-240V),50/60Hz, ＜130W
Backup	24VDC/12Ah sealed lead-acid battery (Not included)
Output Power	120W (24VDC/5A)
PSU	
Protocol / Addressing	T&A, Value range from 1 to 254
Mains and backup switching time	No delay.

Indicator	Numerical Display
Material / Colour	Flat sheet Metal / Light Gray
Dimension	400mm x 320mm x 120mm
IP Grade	IP30
Operating Environment	
Temperature	-10℃~+60℃
Relative Humidity	≤95%, non-condensing
Atmosphere	86~106KPa

TX24-10A

Intelligent Power Supply Unit

Features and Benefits

- EN54-4 Compliance
- Intelligent 10A Power supply unit
- Can sit on the loop to monitor by the Fire control panel
- Digital display showing output voltage and load current
- Overload, overcharge, and over usage protection
- Fully Monitored with Self-test function
- Wall mount Installation

Technical Specification

Compliance	EN54-4
Power Rating	
Power Supply	Mains: AC220V (110-240V),50/60Hz, ＜270W
Backup	24VDC/12Ah sealed lead-acid battery (Not included)
Output Power	240W (24VDC/10A
PSU	
Protocol / Addressing	T&A, Value range from 1 to 254
Mains and backup switching time	No delay.

Indicator	Numerical Display
Material / Colour	Flat sheet Metal / Light Gray
Dimension	400mm x 380mm x 135mm
IP Grade	IP30
Operating Environment	
Temperature	-10℃~+60℃
Relative Humidity	≤95%, non-condensing
Atmosphere	86~106KPa

TXC7002/04/08/16

Conventional Fire Alarm Control Panel

TÜVRheinland

Features and Benefits

- Certified according to EN54-2 & EN54-4.
- Up to 15 detectors per zone.
- 3 Access Levels.
- Zone test mode / disable
- Day/Night mode

Overview

TXC7002/TXC7004/TXC7008/TXC7016 conventional fire alarm control panels are designed according to EN54-2 & EN54-4 standards, and can be connected with sounder strobe TXC7300, manual call point TXC7140, smoke detector TXC7100, heat detector TXC7110, and other equipment. This series is easy to install and debug, and easy to operate.

Technical specification

Input Voltage	
Input voltage	100V ~ 230V, 50/60 Hz
Input Current	2.8A
Fuse	250VAC, T2A (in SPS)
Operating Voltage	
Minimum Operating Voltage	21.5 V
Maximum Charging Current	27.6 V
Battery Type	Sealed lead-acid battery
Maximum Battery Capacity	2 batteries, 7Ah / 12V
Maximum Internal Resistance of Batteries	1 Ω
Standby Current (Fully Loaded)	0.1 A
Maximum Operating Current of Batteries	2.1 A

Detection Zone	
Number of Zones	Maximum 16 zones
Detectors per Zone	Up to 15 conventional detectors
Output Voltage	18VDC ~ 28VDC
Standby Current	< 6 mA (with 15 conventional detectors connected)
Alarm Current	~ 25 mA
End-of-Line Resistor	4.7 kΩ
Fire Alarm Resistance Range	150 Ω ~ 1.5 kΩ (typically 510 Ω)
Recommended Wiring	1.0 mm² or above shield cable, complying with local installation codes
Recommended Cable Length	Maximum 1000 m

Output Interface	
Fault Output	Type: Normally open/close contact output Contact Capacity: 1A / 24VDC
Disable / Supervisory Output	Type: Normally open/close contact output Contact Capacity: 1A / 24VDC
Alarm Output	Type: Voltage output, NO/NC contact available (default: voltage output) Contact Capacity: 1A / 24VDC Output Voltage: 18VDC ~ 28VDC Output Current: 300 mA (in alarm) End-of-Line Resistor: 4.7 kΩ
Sounder 1 Output	Type: Voltage output, NO/NC contact available (default: voltage output) Contact Capacity: 1A / 24VDC Output Voltage: 18VDC ~ 28VDC Output Current: 300 mA (in alarm) End-of-Line Resistor: 4.7 kΩ
Sounder 2 - 3 Output	Type: Voltage output Output Voltage: 18VDC ~ 28VDC Output Current: 300 mA (in alarm) End-of-Line Resistor: 4.7 kΩ
Auxiliary power output	Output Voltage: 18VDC ~ 28VDC Output Current: 20 mA (standby), max. 500 mA (alarm) Recommended Wiring: 1.0 mm² or above shield cable, complying with local installation codes. Recommended Cable Length: Maximum 1000 m
Installation and Storage	
Application	Indoor use below elevation of 2000 m
Overvoltage Category	Class II
Pollution Degree	2
Installation Environment	
Temperature	-5℃～50℃
Relative Humidity	≤ 95%, non-condensing
Storage Environment	
Temperature	-25°C ~ 50°C
Relative Humidity	≤ 95%, non-condensing

TXC7100

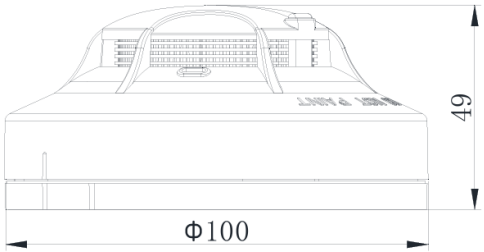
Conventional Optical Smoke Detector

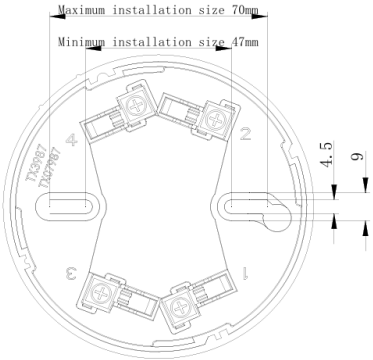
Features and Benefits

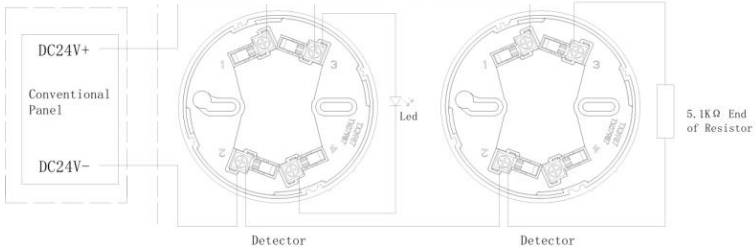
- EN54-7:2018
- TÜV Approved
- 360-degree visual indicator
- Removable chamber against dust and small insects
- Aesthetically pleasing design

Overview

TXC7101 Conventional Smoke Detector (hereinafter referred to as smoke detector) uses advanced Micro-programmed controller unit (MCU) technology to realize auto compensation for external environment data drift and fire confirmation. It is suitable for hotels, restaurants, computer rooms, banks, shopping malls, warehouses, museums, libraries, and office buildings etc.







Technical Specification

Operating voltage	24VDC±20%
Operating Current	Standby ≤ 0.15mA Alarm: ≤ 28mA
Indicator	Monitoring: Red, flashes periodically Alarm: Red, stays on Malfunction: off or irregular flashes
Operating Environment	Temperature: -10℃～55℃
Relative Humidity	≤95%RH, non-condensing
Color	white
Weight	97Gr (with base)

Ordering information

TXC7987	Detector common base

TXC7110

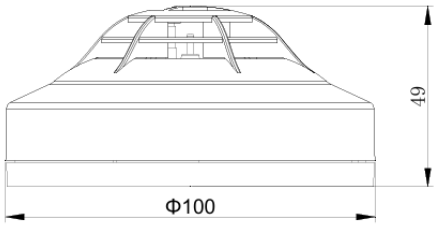
Conventional Heat Detector

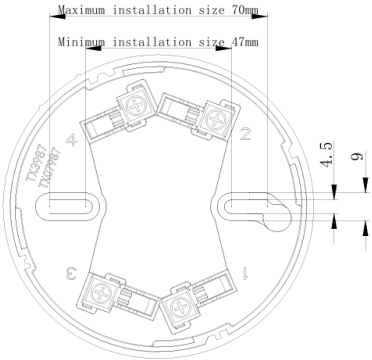
Overview

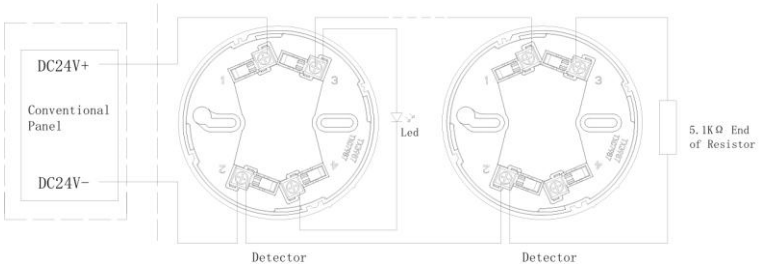
TXC7111 Conventional Heat Detector (A2R) adopts advanced MCU technology. It is able to accurately detect the variation of the ambient temperature so as to confirm and send a fire alarm in a timely. It is designed with an aesthetically pleasing appearance and easy installation, and it is applicable to hotels, restaurants, and computer rooms.
Bank, shopping mall, museum, library, office, and warehouse, etc.

Features and Benefits

- EN54-5:2017 + A1:2018
- TÜV Approved
- 360-degree visual indicator
- Removable chamber against dust and small insects
- Aesthetically pleasing design







Technical Specification

Operating voltage	24VDC±20%
Operating Current	Standby ≤ 0.15mA Alarm: ≤ 28mA
Indicator	Monitoring: Red, flashes periodically Alarm: Red, stays on Malfunction: off or irregular flashes
Operating Environment	Temperature: -10℃～55℃
Relative Humidity	≤95%RH, non-condensing
Color	white
Weight	97Gr (with base)

Ordering information

TXC7987	Detector common base

TXC7140

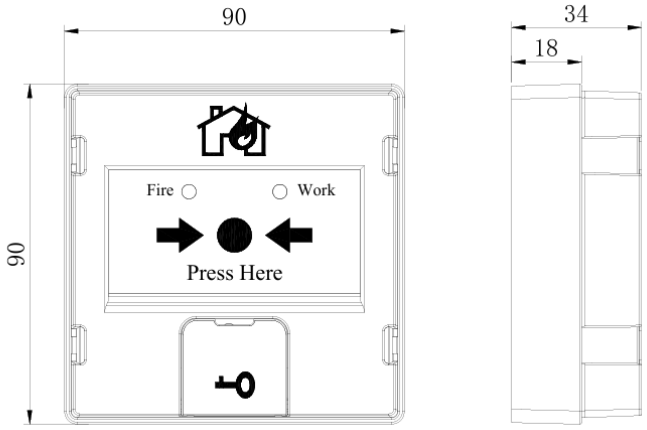
Conventional Manual call point

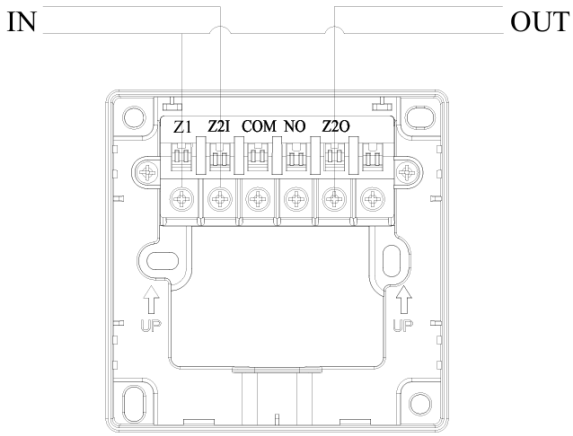
Overview

The TXC7141 manual fire alarm button (hereinafter referred to as the manual button) has a beautiful structure, and wiring is easy and reliable. After the fire is manually confirmed, press the plastic dome on the manual button to send an alarm signal to the controller. After the controller receives an alarm signal, the indicator in the corresponding area is on, and an alarm sounds.

Features and Benefits

- EN54-11:2001
- TÜV Approved
- Flashing LED indicator
- Easy to install
- Compatible with the latest EN standards
- High visibility LED indicator
- Resettable MCP





Technical Specification

Operating voltage	DC24V, 16-28V
Operating Current	Normal current: ≤20uA, Alarm current: ≤30mA
Indicator	Monitoring: Red, flashes periodically Alarm: Red, stays on
Operating Environment	indoors, temperature -10℃～+55℃,
Relative Humidity	≤95%RH, non-condensing
Color	red
Weight	90g (with base)

TXC7300

Conventional Sounder Strobe

Overview

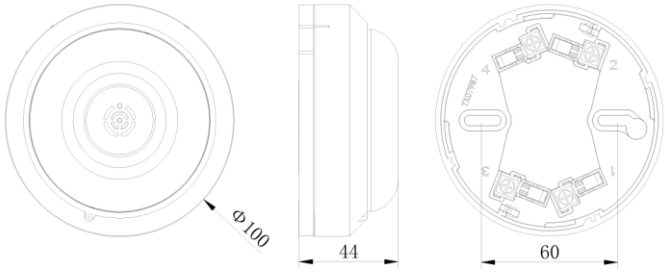
The TXC7301 conventional sounder strobe is a non-coding acoustic and optical alarm equipment installed in the field. When the acoustic and optical alarm starts, a strong acoustic and optical alarm signal is emitted to remind the attention of the scene personnel. This product is small in appearance and design, convenient for installation, and reliable in use, suitable for hotels.
Restaurants, computer rooms, banks, shopping malls, warehouses, museums, libraries, and office Buildings and other places.

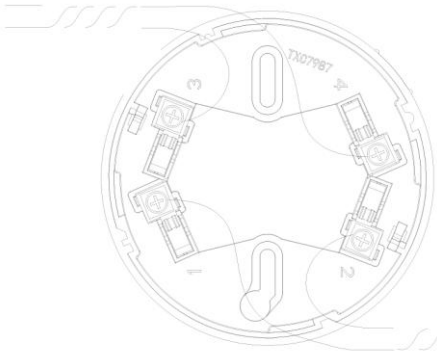
Features and Benefits

- EN 54-3:2014+A1:2019
- TÜV Approved
- Easy to install
- Compatible with the latest EN standards
- Strobe with a high-intensity LED cluster

Technical Specification

Operating voltage	24VDC Range Acceptable: 15~28VDC
Operating Current	＜10.0mA
Sound Pressure Level	After starting, the sound changed from small to large, 3to 5 seconds, 3 meters ahead, 75～105dB
Flashing Frequency	1.0Hz～1.8Hz
Sound Pulsing Frequency	2.5S～4.5S
Color	Red/white
Weight	Weight: About 108g (with base)





TX3311E

Conventional Sounder Strobe

Overview

TX3311E Conventional Sounder Strobe is a type of fire alarm device for on-site installation, and it is controlled by a fire alarm control panel. Once activated, it can send strong audible and visible alarm signals to warn people on site when a fire occurs.

Features and Benefits

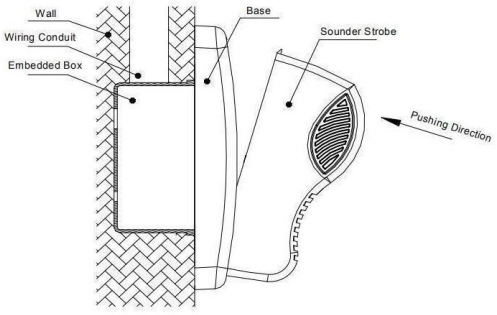
- Low power consumption
- Plug-in structure design for easy installation and high reliability
- Strobe with a high-intensity LED cluster
- long lifespan

Technical Specification

Input Voltage	24v
Operating current	Standby:0mA - Alarm≤35A
Input Voltage	24v
Flashing Frequency	1.2 ～1.8Hz
Sound Pulsing Frequency	2.5 ～ 4.5s
Sound Pressure level	85 to 100 dB
Material / Colour	ABS / RED Glossy finishing

Dimension	121mm×86mm×45mm
Weight	90g
Operating Temperature	-10°C to +80°C
Humidity	0 to 95% Relative Humidity, Non-condensing

Installation



Accessories for TX3311E

TX3962		Weatherproof cover for TX3311E, Red-bottom, shell colorless, IP rating:66 , Operating Temperature -40~ +70℃ , Operating Humidity 0~95% RH, non-condensing, Weight 240g

TG7100

Broadcast Control Panel

Features and Benefits

- Three start mode: auto, manual and contact input
- Support multiple audio inputs, such as emergency broadcast, U disk, MIC, external line 1, external line 2
- Provide MP3 and WMA formats
- Supports 10-level cascaded power amplifiers
- Large reserved space for broadcast sound, and broadcast sound can be synthesized and imported
- Automatically detect U disk and MIC
- LED for emergency broadcast
- Black and white 128×64 LCD, displaying 32 characters.

Overview

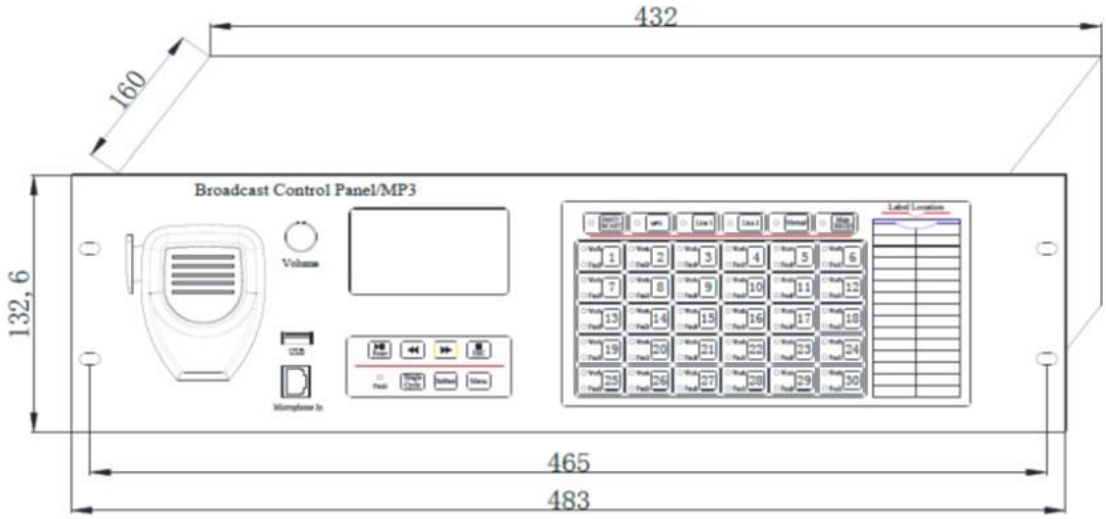
The TG7100 control panel is part of TNA Voice Alarm System and integrated to TNA TX7008 fire alarm control panel and is used to give people clear instruction about when to evacuate and what route to take in case of fire scenario. The TNA voice alarm system consists of TG7100 control panel, and series of power amplifiers TG7300/TG7301/TG7302 and TX7214 addressable voice alarm module. The TG7100 consists of recorded emergency messages, emergency microphone, indicators and controls for selecting voice alarm zones and interfaces in a single cabinet. The TG7100 also supports the public address application for providing background music and non-emergency messages used for malls, hospital, school, factories and buildings.

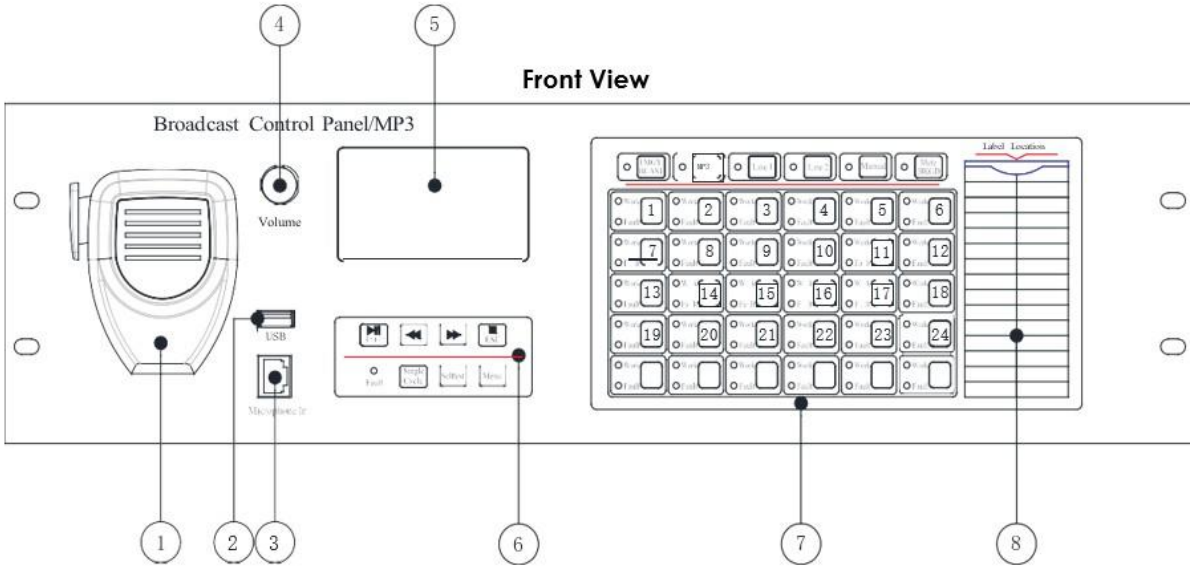
Technical Specification

Power Rating	
Rated Voltage	24VDC（20VDC ~28V）
Current Consumption	≤500mA,Standby Current<100mA
Control Panel	
MP3 Bit Rate	supporting up to 320kpbs
Audio Output	＜0dB
External Line1 Input	-10dB ,Input Impedance≥47KΩ
External Line2 Input	＜0dB
Maximum Recording Length	9-hour length recording, saving for almost 10 years, and overwriting 100,000 times

Recording Segment	up to 999
Supporting Zone	up to 210
Communication Mode	RS485/CAN
Materials	
Dimensions Lx W x H	483mm×160mm×133mm
Weight	2.9kg
Temperature	0℃~+40℃
Relative Humidity	0 to 95% Relative Humidity, Non condensing

Panel details

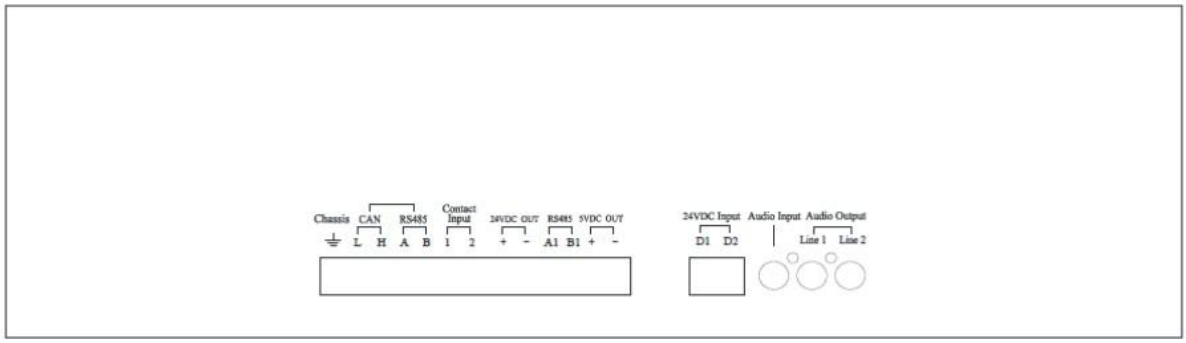




Description:

① Emergency Microphone ② U disk port ③ Microphone socket ④ Volume control
⑤ LCD Indicator ⑥ Functions keys ⑦ Zonal Keys and Indication ⑧ Paper Inserting

Rear View



TG7300

Power Amplifier

Features and Benefits

- Self-check is available
- Auto/Manual mode
- The monitor can be muted automatically to eliminate audio return while the micro-phone is used to broadcast
- Automatically switching between the main power and the standby power
- Fault uploading
- Over heat protection
- Providing 24VDC off-set for local audio output line and line-checking module
- Communicate with TG7100 Broadcast Control Panel through RS485

Overview

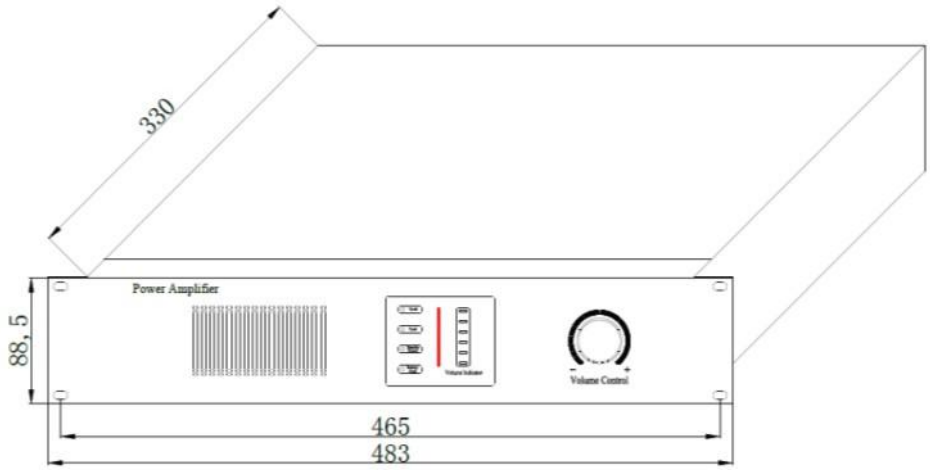
The TG7300 power amplifier series is part of TNA Voice Alarm System. This amplifier has three different power ratings: TG7300 (150watts), TG7301 (300watts and TG7302 (500watts), with 120 output volt line. The TNA voice alarm system consists of TG7300 power amplifiers, TG7100 control panel, and TX7214 addressable voice alarm module sitted on the signaling loop of TX7008 Fire alarm control panel. As it receives the emergency signal, the power amplifier can automatically adjust audio to preset position not controlled by the volume potentiometer, eliminating the influence of human operation.

Technical Specification

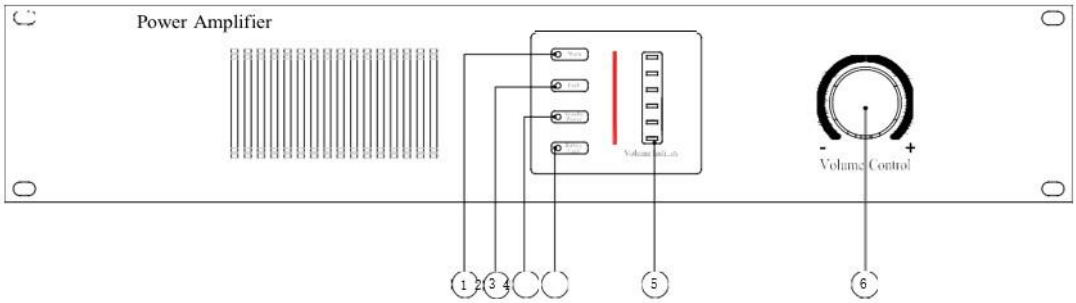
Power Rating	
Main Power	220VAC（187V~242V）50Hz
Standby Power	220VAC（187V~242V）50Hz
Power Amplifier	
Local Address	1~10（binary code, no repeat-ed codes）
Input Resistance	10KΩ
Input Level	775mV
Stable Voltage Output	120V
Frequency Response	80Hz～8KHz（90V～145V
Harmonic Distortion	≤5%

Noise Level	＜37mV
Materials	
Dimensions Lx W x H	483.0mm×330.0mm×88.5mm
Weight	6.5 Kg
Operating Temperature	-10°C to +40°C
Relative Humidity	≤95% Relative Humidity, Non condensing

Power Amplifier Detail

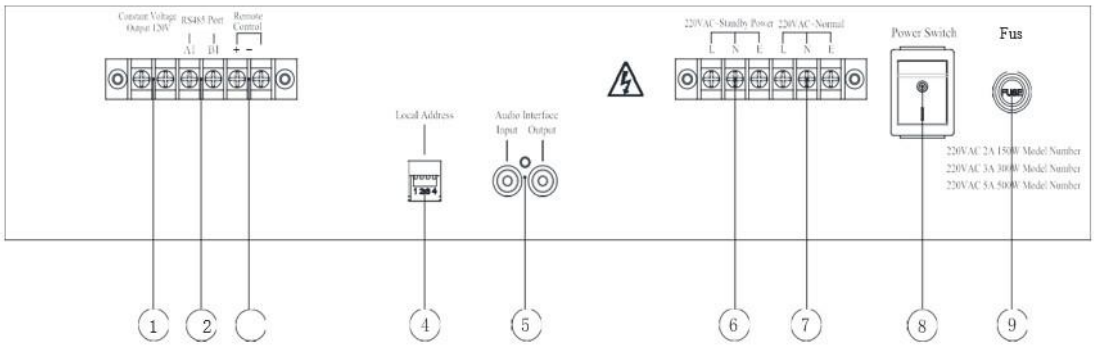


Front View



①Work LED ② Fault LED ③ BAT LED ④ BAT Fault LED ⑤ Volume LED ⑥ Volume Control

Rear View



① Audio Output ② RS485 ③ Remote Control ④ Local Address ⑤ Audio Port ⑥ Batteries ⑦ Main Power ⑧ Switch ⑨ Fuse

TX7214

Addressable Broadcast Control Module

Features and Benefits

- EN54-18 Compliance
- Built-in MCU processor and digital addressing
- 24VDC/2A Output relay contact and Control module
- Input Fire or Supervisory signal configuration
- LED status indicator
- Onsite Adjustable Parameter
- Loop or external power input
- Aesthetically pleasing design
- Surface mounting with fix base for simple installation

Technical Specification

Compliance	EN 54-18:2005
Power Rating	
Input Voltage	Loop Power:24VDC [16V to 28V] External PSU: 20 to 28VDC
Current Consumption Loop	Standby 0.6mA, Alarm: 2.1mA External PSU: Standby 1.5mA, Alarm: 9.0mA
Control output voltage	24VDC / 2A rating
Input Relay	Normally Open dry contact
Protocol/ Addressing	T&A, Value range from 1 to 254
Indicator Status	Normal: Fault blink/Active:Output Activation Steady /Fault: Fault Steady

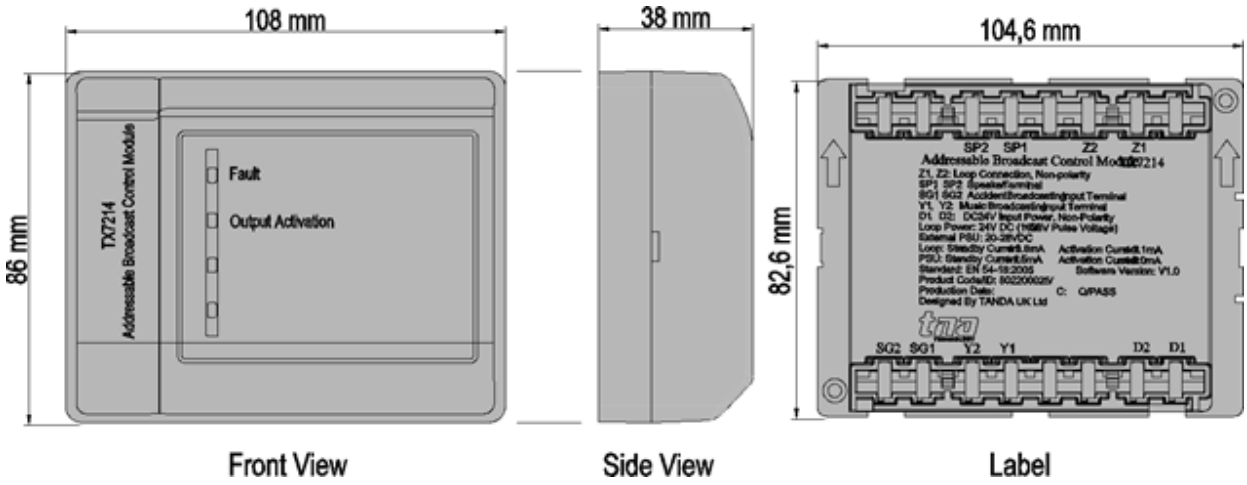
Overview

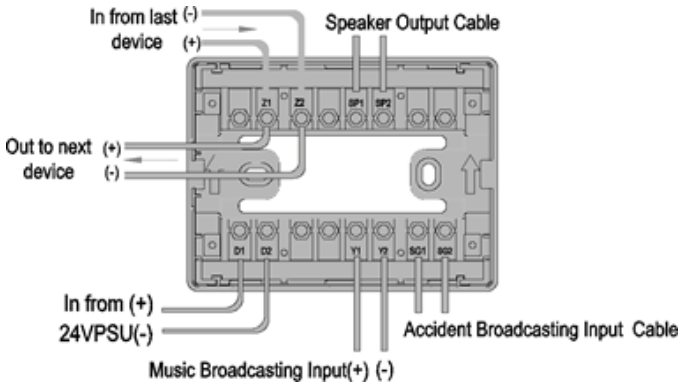
The TX7214 Addressable Broadcast Control Module is a part of TNA voice alarm system work as a switching module to control the emergency signal. The unit according to the pre-configured interface module command fire scenario, the alarm controller send out start command to the equipment required to start. After receiving the command, module enables its relay to change state. Once the module is under control and operated a confirmation signal will be sending back to the alarm controller. In addition, the unit incorporates an intelligent processor that provides automatic monitoring for both open and short circuit of the output signal line.

The unit manufactured base on the requirement of EN 54 part 18, European Standard. The unit is aesthetically pleasing with unobtrusive design that will complement modern building designs and its plug-in type assembles make installation and maintenance more convenient to the installer. The unit is compatible to the TX7008 Analogue Intelligent Fire Alarm Control Panel, produced by single manufacture T&A, to avoid addressable communication compatibility problem.

Material / Colour	ABS / White Glossy finishing
Dimension / LWH	108 mm x 86 mm x38 mm
Weight	160g (with Base), 89g (without Base)
Operating Temperature	-10°C to +50°C
Ingress Protection Rating	IP30
Humidity	0 to 95% Relative Humidity, Non condensing

Module and Wiring Details





Terminal Descriptions:

Z1 Signal In (+)
Z1 Signal Out (+)
Z2 Signal In (-)
Z2 Signal Out (-)
SP1 Speaker Output Cable
SP2 Speaker Output Cable
D1 External Power Supply In (+)
D2 External Power Supply In (-)
YI Music Broadcasting Input (+)
Y2 Music Broadcasting Input (-)
SG1 Accident Broadcasting Input Cable
SG2 Accident Broadcasting Input Cable

Speakers

Part Number	Picture	Technical specification
TX3353E		Power Source: 120 V Tube of height: 50 mm Wattage: 3 W Dimensions : Ø180 x H70 weight: 415gr
TX3356		Power Source: 120 V Sensitivity: 90dB±3dB Wattage: 3 W Dimensions: Ø189XH62 weight: 290gr
TX3357		Power Source: 120 V Sensitivity: 75dB: Wattage: 3 W Dimensions: Ø189XH62 weight: 290gr
TX3358		Power Source: 120 V Sensitivity: 90dB±3dB Wattage: 3 W Dimensions: Ø184XH62 weight: 290gr

TN7000

Addressable Fire Telephone Control Panel

Features and Benefits

- Non-polarized two-wire for communication and talk, cost effective for wiring.
- Connect to 100 TN7100 Addressable Fire Extension Telephone, talk with maximum 3 extension telephones simultaneously.
- Support up to 9-hour recording of talk.
- Provide 999 different kinds of messages which can be searched by type or time.
- Black and white 128×64 LCD, displaying 64 characters.

Overview

The fire telephone system is a special system for fire communication. The fire telephone system has a private circuit for transmitting signals. In the event of fire, the fire telephone system can be used to directly communicate with the fire control center. For example, the fire extension telephone(fixed) installed in the field can be lifted and the fire telephone mobile handset can be plugged into the fire telephone jack socket to talk with the staff in fire control center. TN7000 Fire Telephone Control Panel can constitute a fire telephone system together with TN7100 Addressable Fire Extension Telephone and TN7300 Addressable Fire Telephone Jack Socket.

Technical Specification

Power Rating	
Power Rated	24VDC (20VDC – 28 VDC)
Current Consumption	600mA
Control Panel	
Capacity	1-100 Address Point
Voice Frequency	300Hz to 3400Hz
Crosstalk Level	60 dB
Transmission Loss	5 dB

Loop Resistance	300 ohms
Material / Colour	Flat sheet metal / Dark Gray
Dimension	483 mm x 200 mm x 88.5 mm
Weight	3.0 Kg
Operating Temperature	-10°C to +55°C
Humidity	0 to 95% Relative Humidity, Noncondensing

TD7808

Intelligent Power Supply Unit

Features and Benefits

- EN54-4 Compliance.
- Intelligent 10A Power supply unit.
- Can sit on the loop to monitor by the Fire control panel.
- Digital display showing output voltage and load current.
- Overload, overcharge and over usage protection.
- Fully Monitored with Self-test function.
- Cabinet type.

Technical Specification

Power Rating	
Power Supply	Mains: AC220V(187-240V), 50/60Hz, ＜300W
Backup	24VDC/24Ah sealed lead-acid battery (Not included)
Output Power	265W (24.5VDC/10A)
PSU	
Protocol/ Addressing	T&A, Value range from 1 to 254
Mains&backup switching time	No delay.
Indicator	Numeral display
Material/ Colour	Flat sheet Metal / Light Gray
Dimension	480mm x 320mm x 89 mm (2U)
IP Grade	IP30
Operating Environment	
Temperature	-10℃~+60℃
Relative Humidity	≤95%, non-condensing
Atmosphere	86~106KPa

Overview

TD7808 Intelligent Power Supply Unit is a power supply product for the fire controller linkage equipment. It is a cabinet mounted panel structure with a power output of approximately 265W (DC26.5V/10A). The main function of this power supply is to convert AC220V voltage to DC26.5V, and it has the functions of standby power supply charge function. The standby battery provides the output of DC24V/24Ah when AC220V stops supplying, which plays a continuous role in the work and start-up of the linkage equipment. The display function of this power supply is comprehensive, with output voltage display, output current display, main power fault, standby power fault, line fault and other fault indication, and overload, over-current, short circuit protection function. TD7808 Intelligent Power Supply Unit has RS485 networking function, which can be connected with the TX7002/TX7008 series fire alarm control panel, and provide the corresponding linkage, fault and status information for the fire alarm control panel.

TN7100

Addressable Fire Phone Station

Features and Benefits

• Non-polarized two-wire for communication and talk, cost effective for wiring.
• Using electronic addressing.
• Lifting the extension can call a fire telephone control panel.
• As the extension receives a call from a fire telephone control panel, it will ring to remind customers of answering it.

Technical Specification

Power Rating	
Power Rated	24VDC (20VDC – 28 VDC)
Current Consumption	Standby: 600μA / Talk current: 25mA
Control Panel	
Voice Frequency	300Hz to 3400Hz
Material / Colour	Flat sheet metal / Dark Gray
Dimension	L:204 mm x W:80 mm x H:56.7 mm
Weight	0.35 Kg
Operating Temperature	-10°C to +55°C
Humidity	0 to 95% Relative Humidity, Noncondensing

Overview

TN7100 Addressable fire phone station is a bus communication device special for fire protection system. The extension can transmit and receive signals with a fire telephone control panel. It is suitable for hotels, restaurants, office buildings, teach buildings, banks, warehouses, libraries, computer rooms and switching rooms. The extension can constitute a fire telephone system together with TN7000 Fire Telephone Control Panel, TN7101 Fire Telephone Mobile Handset, TN7300 Addressable Fire Telephone Jack Socket and TN7301 Fire Telephone Jack Socket.

TN7101
Mobile Handset

Features and Benefits

• The handset can be taken along so that it is convenient for fire management personnel to
• use.
• Using special telephone chip with clear and reliable talk.
• The handset can directly call a fire telephone control panel as it is plugged into a jack socket.

Overview

TN7101 Fire Telephone Mobile Handset is a portable telephone plugged into a jack socket for transmitting and receiving signals with a fire telephone control panel. The handset can constitute a fire telephone system together with TN7000 Fire Telephone Control Panel, TN7100 Addressable Handset, TN7300 Addressable Fire Telephone Jack Socket and TN7301 Fire Telephone Jack Socket.

Technical Specification

Power Rating	
Power Rated	24VDC (20VDC – 28 VDC)
Current Consumption	Talk current: 25mA
Control Panel	
Voice Frequency	300Hz to 3400Hz
Material / Colour	ABS / Red
Dimension	199.8 mm x 50 mm x 38.5 mm
Weight	0.16 Kg
Operating Temperature	-10°C to +55°C
Humidity	0 to 95% Relative Humidity, Noncondensing

TN7300

Addressable Fire Telephone Jack

Overview

TN7300 Addressable Fire Telephone Jack Socket (called the Jack Socket for short) a telephone port installed in the field can detect the plug in and hang up of an extension handset. It is suitable for hotels, restaurants, office buildings, teach buildings, banks, warehouses, libraries, computer rooms and switching rooms.
The Jack Socket can constitute a fire telephone system together with TN7000 Fire Telephone Control
Panel, TN7100 Addressable Handset, TN7101 Extension Handset and TN7301 Fire Telephone Jack Socket.

Features and Benefits

- Non-polarized two-wire for communication and talk, cost effective for wiring.
- Using electronic addressing.
- TN7301 Jack Socket can be connected.
- The telephone line output port has the feature of open and short circuits checking.

Technical Specification

Power Rating	
Power Rated	24VDC (20VDC – 28 VDC)
Current Consumption	Standby: 600μA / Talk current: 25mA
Jack Socket	
Load Capacity	Connecting up to 150 TN7301 Jack Socket
Programming	Electronically addressing for one code
End of line	24kΩ（20kΩ～25kΩ）
Material / Colour	ABS / Red-White
Dimension	L:86.6 mm x W:30 mm x H:86.6 mm
Weight	0.065 Kg
Operating Temperature	-10°C to +55°C
Humidity	0 to 95% Relative Humidity, Noncondensing

TN7301

Conventional Fire Telephone Jack

Overview

TN7301 Conventional Fire Telephone Jack Socket (called the Jack Socket for short), a telephone port installed in the field can detect the plug-in and hang up of an extension handset. It is suitable for hotels, restaurants, office buildings, teaching buildings, banks, warehouses, libraries, computer rooms, and switching rooms. The Jack Socket can constitute a fire telephone system together with the TN7000 Fire Telephone Control Panel, TN7100 Addressable Handset, TN7101 Extension Handset, and TN7301 Fire Telephone Jack Socket.

Features and Benefits

- Non-polarized two-wire for communication and talk, cost effective for wiring.
- Connect to Addressable TN7300 Jack Socket

Technical Specification

Power Rating	
Power Rated	24VDC (20VDC – 28 VDC)
Current Consumption	20μA
Jack Socket	
Connection	Connect to Addressable TN7300 Jack Socket
End of line	24kΩ（20kΩ～25kΩ）
Material / Colour	ABS / Red-White
Dimension	L:86.6 mm x W:30 mm x H:86.6 mm
Weight	0.065 Kg
Operating Temperature	-10°C to +55°C
Humidity	0 to 95% Relative Humidity, Noncondensing

TN7200

Relay Module

Overview

TN7200 Relay Module can constitute a fire telephone system together with TN7000 Fire Telephone Control Panel, TN7100 Addressable Handset, TN7101 Fire Telephone Mobile Handset, TN7300 Addressable Fire Telephone Jack Socket, and TN7301 Fire Telephone Jack Socket. Adding a relay at the end of the telephone bus can enhance the distance and quality of communication during on-site construction.

Features and Benefits

- Isolating input and output of the bus, power supply, enhancing the communica- tion quality and anti-0interference ability.
- Non-polarized 24VDC power input and telephone bus input, convenient for installation, operation and maintenance in field.
- Featuring of short circuit protection for bus output

Technical Specification

Power Rating	
Power Rated	24VDC (20VDC – 28 VDC)
Current Consumption	600mA
Relay Module	
Communication Distance	1000 meters (Twisted pair)
Material / Colour	Metal Flat sheet / White
Dimension / LWH	121 mm x 38.5 mm x 188 mm
Weight	0.6 Kg
Operating Temperature	-10°C to +40 °C
Humidity	0 to 95% Relative Humidity, Noncondensing

JB-QB-TX3003M

Wireless Fire Alarm Control Panel

Overview

The JB-QB-TX3003M is designed to provide early-warning fire detection for home applications. The JB-QB-TX3003M wireless microprocessor-based home fire alarm control equipment offers flexibility in both design and operation. The panel will capture data from up to 16 devices situated around the site, including active alarms, faults, and other events, and send the information. JB-QB-TX3003M has two initiating circuits: the wireless communication that can support up to 80 wireless devices, and the loop for 2 bus line communication loops that support up to 16 wired devices. The Control Panel is powered by 220 VAC and has battery backup.

Features and Benefits

- Wireless fire alarm control panel with supplementary one-loop communication bus.
- Built-in Auto-dialer Feature
- Compact size and aesthetically pleasing design
- Surface mounting with fixed base for simple installation

Technical Specification

Power Rating	
Input Voltage	AC 220V/50Hz (187-242V)
Standby power	DC3.7V/3500 mAh (built-in battery)
Power Consumption	
Standby Power	< 1W
Alarm Power	12W (alarm state)
System Capacity	
Number of Wireless Devices	Up to 80
Number of Wired Devices	Up to 16
Transmission Frequency	wireless communication frequency: 470～510MHz
Transmission Distance	300 meters in open space

Materials	
Display	2.8-inch TFT LCD
Material/Color/ IP rating	ABS / white / IP 30
Dimension / LXHXW	194.0mm×104.0mm×29.5mm
Operating Temperature	0°C to +42°C
Humidity	0 to 95% Relative Humidity, Non-condensing

JTY-GF-TX3190CE-F

Wireless/Stand-Alone Smoke Detector

Features and Benefits

- Wireless Optical smoke alarm
- Low battery warning and LED status indicator
- 360-degree visual indicator
- Built-in local sounder; more than 80 dBA alarm signals
- Aesthetically pleasing design and easy to install.

Technical Specification

Working voltage	DC3.0V(1 CR17450 Lithium battery). 3-5 years lifetime.
Current Consumption	Standby: <40uA, Alarm: <100mA.
Transmission Frequency	470~510MHz
Transmission Distance	300 meters maximum (Open area)
LED Indicator	Single LED / 360-degree Visual/ Normal: Red LED Flash every 75 seconds Alarm: Red LED flashes quickly, and the buzzer sends an alarm signal. Faulty: Yellow LED Flash every 50 seconds, short beep alarm

Overview

The JTY-GF-TX3190CE-F Standalone Photoelectric Smoke Detector is designed to detect significant smoke generation during the early stages of a fire and immediately trigger an alarm signal. The device incorporates a high-performance microcontroller (MCU) that automatically compensates for environmental variations and accurately evaluates fire conditions through its built-in program logic. Equipped with a reliable internal wireless communication module, the detector can seamlessly connect to a wireless gateway, ensuring stable and dependable performance. It is suitable for use in residential properties as well as small commercial and public facilities. The detector features a high-intensity internal buzzer that activates upon alarm and includes an infrared remote silence (mute) function for convenient operation.

Weight	225.6gr (with Battery)
Material/Color	ABS (flame retardant)/ pearl white
Dimension / LXHXW	111 mm, height: 69 mm (including base)
Operating Temperature	-10°C to +55°C
IP rating	30
Humidity	0 to 95% Relative Humidity, Non-condensing

JTW-ZOF-TX3180

Wireless/Stand-Alone Heat Detector

Features and Benefits

- Wireless heat alarm
- Low battery warning and LED status indicator
- 360-degree visual indicator
- Built-in local sounder; up to 75 dBA alarm signals
- Aesthetically pleasing design and is easy to install.

Overview

The JTW-ZOF-TX3180 is a high-performance standalone heat fire detector designed to provide reliable temperature-based fire detection. It incorporates both fixed-temperature alarm monitoring and rate-of-rise temperature detection to ensure rapid and accurate fire identification. The device incorporates a high-performance microcontroller (MCU) that automatically compensates for environmental variations and accurately evaluates fire conditions through its built-in program logic.
Equipped with a reliable internal wireless communication module, the detector can seamlessly connect to a wireless gateway, ensuring stable and dependable performance

Technical Specification

Battery Required	(2x1.5 AA) batteries.
Current Consumption	Standby: <40uA, Alarm: <40mA.
Transmission Frequency	470~510MHz
Transmission Distance	1000 meters maximum (Open area)
LED Indicator	Single LED / 360-degree Visual/ Normal: Green LED Flash every 50 seconds Alarm: Red LED keeps on, and the buzzer sends an alarm signal. Faulty: Yellow LED Flash every 50 seconds, short beep alarm

Weight	125g (with Battery and base)
Material/Color	ABS (flame retardant)/ pearl white
Dimension / LXHXW	100.3mm, height:51mm (including base)
Operating Temperature	-10°C to +55°C
IP rating	30
Humidity	0 to 95% Relative Humidity, Non-condensing

TW3232

Wireless Sounder Strobe

Features and Benefits

- Low battery warning
- Built-in addressable chip
- Using multiple high-brightness LEDs as light sources, an eye-catching display, long life, and low power consumption.
- Universal mounting with fixed base for simple installation
- Aesthetically pleasing design and easy to install.

Overview

The TW3232 wireless sounder strobe is a kind of sound-light alarm equipment installed at the site. After the sound strobe starts, a strong sound-light alarm signal is sent to remind the field staff. Built-in wireless components are stable and reliable, and can network with a wireless transmitting module and a fire alarm control panel. This product applies to houses, hotels, apartments, etc.

Technical Specification

Battery Required	3 VDC.
Current Consumption	Standby <40uA, Alarm: <40mA
Transmission Frequency	470~510MHz
Transmission Distance	300 meters maximum (Open area)
Sound level pressure	75dB~105dB.

Weight	165g (with Battery and base)
Material/Color	ABS (flame retardant)/ pearl white
Dimension / LXHXW	100.3mm, height:48mm (including base)
Operating Temperature	-10°C to +55°C
IP rating	30
Humidity	0 to 95% Relative Humidity, Non-condensing

J-SAP-M-TW3240

Wireless Manual Call Point

Features and Benefits

- Wireless Manual Call Point
- Low battery warning and LED status indicator
- Built-in addressable chip
- Aesthetically pleasing design and easy to install.

Overview

J-SAP-M-TW3240 is a wireless alarm button. When the fire is manually confirmed, press the wireless alarm button and send the alarm signal to the fire alarm controller. The built-in wireless communication component is stable and reliable and can network with a fire alarm controller. This product applies to houses, hotels, apartments, etc.

Technical Specification

Operating voltage	DC3V(CR17450) 3-5 years lifetime.
Current Consumption	Standby <40uA, Alarm: <20mA
Transmission Frequency	470～510MHz
Transmission Distance	300m meters maximum (Open area)
LED indicator	Single LED / 360-degree Visual Normal: Green LED Flash every 75 seconds. Red LED Steady Light Faulty: Yellow LED Flash every 50 seconds

Weight	109g with Battery
Material/Color/	ABS/red
Dimension / LXHXW	89mm x 89mm x 36mm
Operating Temperature	-10°C to +55°C
IP rating	30
Humidity	0 to 95% Relative Humidity, Non-condensing

TW3221 (Foslink)

Wireless Input/output interface module

Overview

TW3221 (Foslink) adopts a pressing terminal structure, convenient construction and installation, generous and beautiful appearance, excellent performance of a single-chip machine, with strong analysis and judgment ability. This product can automatically detect the control line (open circuit, short circuit) and the feedback line (open circuit, short circuit) connected to the controlled equipment and give the status indication through the indicator light and the signal terminal. In the case of power fluctuation, power failure and interference, the output action of the internal relay of the product will remain stable in the last action state and will not affect the linkage state of the controlled equipment.

Features and Benefits

- battery undervoltage reminder function
- Plug and pull type structure design, convenient and reliable installation.
- Aesthetically pleasing design and easy to install.

Technical Specification

Battery Required	3V DC (2X1.5VFR14505/AA BATTERY).
Current Consumption	Standby <50uA, Alarm: <30mA
Transmission Frequency	470～510MHz
Transmission Distance	300 meters maximum (Open area)
Relays	Input relay may be set to normally open or normally closed mode output relay signal type may be set to a level signal or a pulse signal

Weight	90g with Battery
Material/Color	ABS/red
Dimension / LXHXW	89mm x 89mm x 33mm
Operating Temperature	-10°C to +55°C
Humidity	0 to 95% Relative Humidity, Non-condensing

TW3207(Foslink)

Wireless Door Contact

Features and Benefits

- Enhances overall fire alarm and security systems
- Ideal for smart homes and safety protection points
- Integrated Hall sensor for precise magnetic detection
- Reliable intrusion detection for doors, windows, and drawers.
- Aesthetically pleasing design and easy to install.

Overview

Introducing the TW3207(Foslink) Door Contact – your smart, reliable guard for doors and windows.
The TW3207(Foslink) is a magnetic door contact sensor consisting of a main module (with communication function, Hall sensor, and power supply) and a permanent magnet. Together, they detect any unauthorized opening or movement of doors, windows, and drawers. When the position changes, the main module instantly sends status information to the household fire alarm controller via FosLink, enabling fast and accurate security and fire alarm notification.

Technical Specification

Battery Required	3 VDC (2 x 1.5 AA) batteries.
Current Consumption	Standby <30uA Standby <140mA
Transmission Frequency	470～510MHz
Transmission Distance	300 meters maximum (Open area)
LED indicator	Normal operation: Green lights flash once every 60S Online status: Green lights normally on for 10 S Open-door status: Red lights normally on for 10 S

Weight	50g
Material/Color	plastic/ white
Dimension / LXHXW	75mm X 35 mm x 23 mm
Operating Temperature	-10°C to +55°C
Humidity	0 to 95% Relative Humidity, Non-condensing

TW3205(Foslink)

Wireless Water Sensor

Features and Benefits

- Water Level & Submersion
- Event Reporting & Data Collection
- Ultra-Low Power Design Aesthetically
- Wide Application Range

Overview

The TW3205 Water Sensor is a reliable detection device designed to monitor water presence and prevent flood-related damage. The system consists of a main communication module and a water probe. When the probe detects water submersion, the main module immediately transmits a status signal to the household fire alarm controller.
Ideal for rooms, warehouses, and water storage areas, the TW3205 can be used as both a water intrusion detector and a water level alarm. It is widely applied in fire alarm systems, smart home protection, and safety monitoring environments, providing an essential layer of protection against water-related hazards

Technical Specification

Battery Required	3 VDC (2 x 1.5 AA batteries).
Current Consumption	Standby <30uA, Alarm: <140mA
Transmission Frequency	470～510MHz
Transmission Distance	300 meters maximum (Open area)
LED indicator	Normal operation: Green lights flash once every 80S Online status: Green lights are normally on for 10S. Alarm status: Red lights flash once for 1S Fault status: Yellow lights flash once every 80S

Weight	50g with Battery
Material/Color	white
Dimension / LXHXW	75mm x 35mm x 23mm
Operating Temperature	-10°C to +55°C
Humidity	0 to 95% Relative Humidity, Non-condensing

TX3260

Two-wire Gateway

Features and Benefits

- Secure and stable data transmission
- Real-time monitoring with remote command capability
- Easy installation with a compact and modern design Aesthetically pleasing design and easy to install.

Overview

The TX3260E Two-Wire Gateway is an advanced communication bridge designed to seamlessly connect wireless detection and detectors with the system controller. It ensures fast, stable, and secure data transmission between field wireless devices and the central control unit.
Through the system bus, the TX3260E reliably transfers status information from connected wireless detection units to the controller, enabling real-time monitoring and rapid response. The controller can also issue control commands—such as remote reset—to detectors, achieving long-distance, two-way communication and enhanced system performance.

Technical Specification

Battery Required	DC 15V -26V
Maximum Current	<250mA
Transmission Frequency	470～510MHz
Transmission Distance	1500 meters maximum (Open area)
Number of Wireless Devices	200

Weight	180 g
Material/Color	Black
Dimension / LXHXW	118mm x 105mm x 28mm (excluding antenna)
Operating Temperature	-10°C to +55°C
Humidity	0 to 95% Relative Humidity, Non-condensing

TX3231

Wireless relay Module

Features and Benefits

- 24V power input
- Increase the transformation distance by the wireless signal
- Built-in high-performance microprocessor

Overview

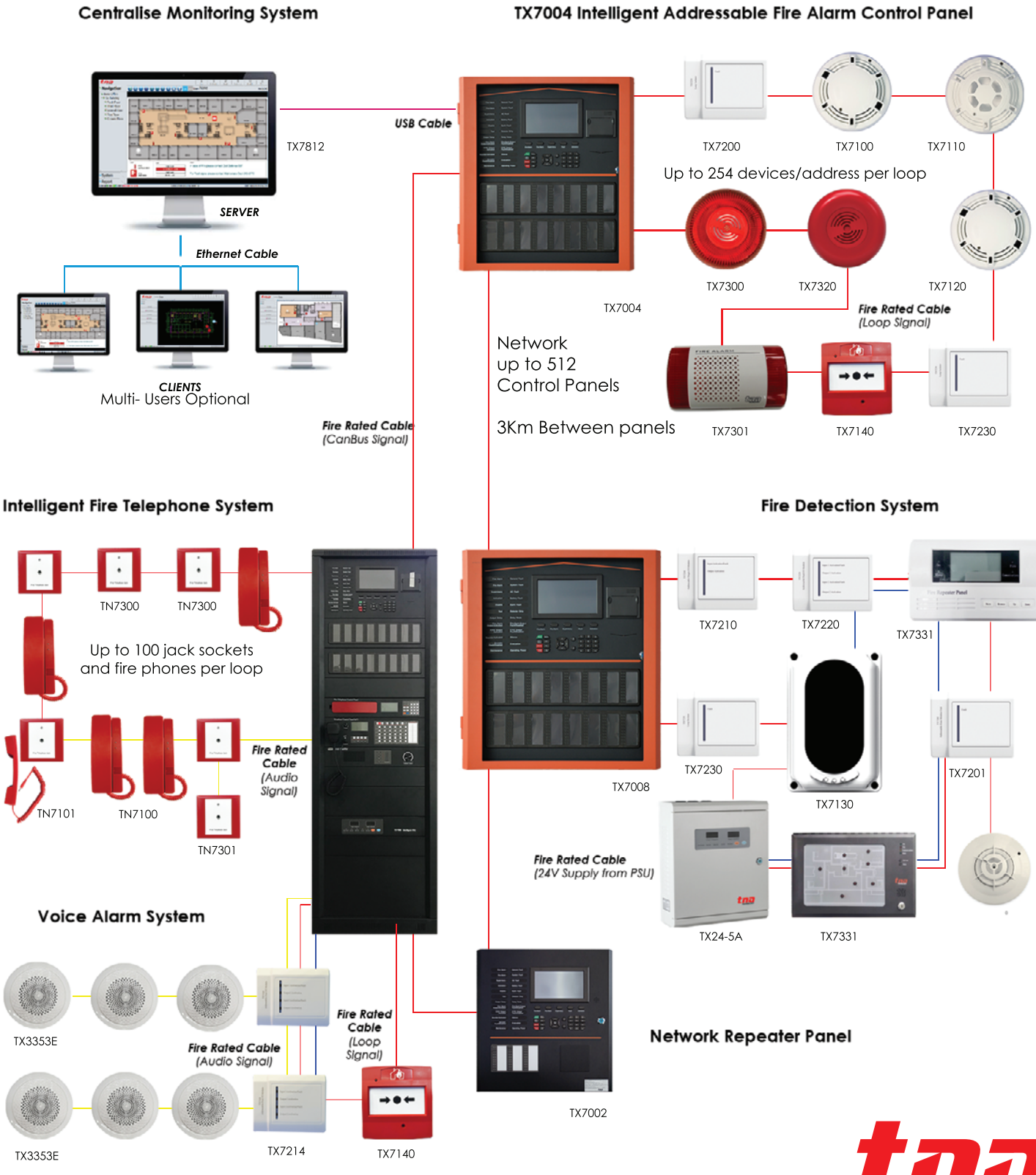
The TX3231E Wireless Repeater is used to extend wireless coverage by repeating the wireless signal generated between the panel and the detector. The TX3231E not only expands the wireless range, it also improves the wireless transmission rate to maintain the stable communication of the panel and the detector.

Technical Specification

Battery Required	DC 15V -26V
Maximum Current	<250mA
Transmission Frequency	470～510MHz
Transmission Distance	1500 meters maximum (Open area)
Number of Wireless Devices	200

Weight	180 g
Color	Black
Dimension / LXHXW	118mm x 105mm x 28mm (excluding antenna)
Operating Temperature	-10°C to +55°C
Humidity	0 to 95% Relative Humidity, Non-condensing

TNA SYSTEM PLATFORM



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