

A Tiancheng Group Company

Wireless Fire Alarm System



No. 11-2 Kechechang Xili, Xishi Distric, Yingkou
Pilot Free Trade Zone (Liaoning) China

Website: www.tcfiretech.com
Email: info@tcfiretech.com

All information in this document is given in good faith but TC cannot be held responsible for any omissions or errors. The company reserves the right to change the specifications of products at any time and without prior notice.



Wireless Fire Alarm Control Panel



Product Overview

Product	Wireless Fire Alarm Control Panel
Model	JB-TB-TC5126W

Product information

JB-TB-TC5126W Wireless Fire Alarm Control Panel's typical configuration includes: main control panel, loop control panel, direct control panel, power supply, etc. The control panel is small in size, convenient to install and simple to operate, and is widely used in fire fighting engineering. The fire alarm control system can be widely used in small-scale fire fighting projects such as high-grade office buildings, residential quarters, department stores, gymnasiums, libraries, supermarkets, hotels,

Technical Data

All data is supplied subject to change without notice. Specifications are typical at 24V, 25°C and 50% RH unless otherwise stated.

Main Power Supply	AC220V(3.5A), range: +10%~-15%
Battery Capacity	lead-acid battery 12V/3.3Ah*2 2 wireless loops 64 points/loop 40 network segments
Radio frequency	transmit power < 20dBm
Frequency band	470MHz
Communication distance	≤ 700m
Operating environment	temperature 10°C ~ +55°C relative humidity ≤ 95%
Dimension	360mm*130mm*480mm

With the new generation of high-speed processors, compared with the traditional technology, the data processing speed is faster and the data storage capacity is larger.

Networking with other fire alarm control panel through CAN

System operation history recording function: fire alarm history, linkage history, fault history and other history each have a capacity of 1000.

No. 11-2 Kechechang Xili, Xishi Distric, Yingkou
Pilot Free Trade Zone (Liaoning) China

Website: www.tcfiretech.com
Email: info@tcfiretech.com

All information in this document is given in good faith but TC cannot be held responsible for any omissions or errors. The company reserves the right to change the specifications of products at any time and without prior notice.

A Tiancheng Group Company

© Tiancheng Fire Protection Equipment Co., Ltd.



Wireless Photoelectric Smoke Detector



Product Overview

Product	Wireless Photoelectric Smoke Detector
Model	JTY-GM-TC5401W

Product information

JTY-GM-TC5401W wireless photoelectric smoke detector is an intelligent industrial fire detector based on the principle of transmitting and receiving high-precision infrared tubes, which can be used with the wireless fire alarm control panel and smart home platform APP. The detector uses 470MHz wireless transceiver technology to process data with a highly integrated micro-processing chip. It has the characteristics of high sensitivity, long transmission distance and low power consumption.

Technical Data

All data is supplied subject to change without notice. Specifications are typical at 24V, 25°C and 50% RH unless otherwise stated.

Battery	CR17450 3V
Operating current	monitoring current $\leq 8\mu\text{A}$, alarm current $\leq 18\text{mA}$
Coding method	automatically assigned when networking
Radio frequency	transmit power $< 20\text{dBm}$
Frequency band	470MHz
Communication distance	$\leq 50\text{m}$
Communication method	470MHz FSK coded bidirectional
Protection area	$20 \sim 30\text{m}^2$
Operating environment	temperature $10^\circ\text{C} \sim +55^\circ\text{C}$ relative humidity $\leq 95\%$
Dimension	100mm*55mm(with base)
Weight	118g

accurately and quickly detect the change of smoke concentration in the environment, accurately and timely determine the fire and give an alarm

advanced wireless communication technology, signal transmission can be completed without wiring, and engineering installation is simple and convenient

It has the function of battery low voltage detection, and reminds the user to replace the battery when it is insufficient to maintain the normal operation of the detector.

No. 11-2 Kechechang Xili, Xishi Distric, Yingkou
Pilot Free Trade Zone (Liaoning) China

Website: www.tcfiretech.com
Email: info@tcfiretech.com

All information in this document is given in good faith but TC cannot be held responsible for any omissions or errors. The company reserves the right to change the specifications of products at any time and without prior notice.

A Tiancheng Group Company

© Tiancheng Fire Protection Equipment Co., Ltd.



Wireless Heat Detector



Product Overview

Product	Wireless Heat Detector
Model	JTY-GM-TC5402W

Product information

JTW-ZOM-TC5402W wireless heat detector is an intelligent household fire detector with high-precision thermistor as the sensor, which can be used together with the wireless fire alarm control panel. The detector uses advanced wireless transceiver technology and high-integration micro-processing chip to process data.

Technical Data

All data is supplied subject to change without notice. Specifications are typical at 24V, 25°C and 50% RH unless otherwise stated.

Battery	CR17450 3V
Operating current	monitoring current $\leq 3\mu\text{A}$, alarm current $\leq 18\text{mA}$
Coding method	automatically assigned when networking
Radio frequency	transmit power $< 20\text{dBm}$
Frequency band	470MHz
Communication distance	$\leq 50\text{m}$
Communication method	470MHz FSK coded bidirectional
Operating environment	temperature $10^{\circ}\text{C} \sim +55^{\circ}\text{C}$ relative humidity $\leq 95\%$
Dimension	100mm*54mm(with base)
Weight	110g

Using advanced wireless transceiver technology, signal transmission can be completed without wiring, and the project is simple and convenient.

It adopts 470MHz communication and FSK coding technology, which has strong anti-interference ability and long transmission distance

Low-voltage battery detection, reminding the user to replace the battery when it is insufficient to maintain the normal operation of the detector.

Wireless Manual Call Point



Product Overview

Product	Wireless Manual Call Point
Model	J-SAP-TCSB5406W

Product information

J-SAP-TCSB5406W wireless manual call point is suitable for installation in public places, factories and other environments. When a fire is manually confirmed, press the button, and the red light of the MCP is always on, so that an alarm signal can be sent to the control panel through wireless communication technology. When the control panel responds to the alarm signal, the MCP enters a state of waiting for the control panel to reset, and the control panel displays the coded information of the MCP and gives an alarm sound.

Technical Data

All data is supplied subject to change without notice. Specifications are typical at 24V, 25°C and 50% RH unless otherwise stated.

Battery	CR17450 3V
Voltage range	2.7~3.3V
Operating current	monitoring current $\leq 10\mu A$, alarm current $\leq 19mA$
Coding method	automatically assigned when networking
Radio frequency	transmit power $< 20dBm$
Frequency band	470MHz
Operating environment	temperature 10°C~+55°C relative humidity $\leq 95\%$
Dimension	95mm*96mm*50mm
Weight	190g

Push-type structure design is adopted, and special tools are required to reset after pressing MCP;

Using 470MHz wireless communication technology, there is no need to embed wiring, and the engineering installation is convenient and fast;

with battery low voltage detection function, which can reflect the battery power situation in time;

Using microprocessor to realize signal processing, communicating with controller by digital signal, it works stably and reliably, and has good ability to suppress electromagnetic interference.

No. 11-2 Kechechang Xili, Xishi Distric, Yingkou
Pilot Free Trade Zone (Liaoning) China

Website: www.tcfiretech.com
Email: info@tcfiretech.com

All information in this document is given in good faith but TC cannot be held responsible for any omissions or errors. The company reserves the right to change the specifications of products at any time and without prior notice.

A Tiancheng Group Company

© Tiancheng Fire Protection Equipment Co., Ltd.



Wireless Input Module



Product Overview

Product	Wireless Input Module
Model	TCMK5411W

Product information

TCMK5411W wireless input module is suitable for installation in public places, factories and other environments. When there is a fire alarm, the module will send an alarm signal to the control panel through wireless communication technology after receiving the input signal specified by the manufacturer, and the red light is always on.

Technical Data

All data is supplied subject to change without notice. Specifications are typical at 24V, 25°C and 50% RH unless otherwise stated.

Battery	CR17450
Rated Operating Voltage	3V
Operating current	monitoring current $\leq 13\mu\text{A}$, alarm current $\leq 20\text{mA}$
Coding method	automatically assigned when networking
Radio frequency	transmit power $< 20\text{dBm}$
Communication method	470MHz FSK coded bidirectional
Operating environment	temperature $10^{\circ}\text{C} \sim +55^{\circ}\text{C}$ relative humidity $\leq 95\%$
Dimension	101mm*137mm*43mm
Weight	160g

the 470MHz wireless communication technology is adopted, and no embedded wiring is needed, so the engineering installation is convenient and quick;

With battery low voltage detection function, it can reflect the battery power situation in time;

The microprocessor is used to realize signal processing, and the digital signal is used to communicate with the control panel, which works stably and reliably, and has a good ability to suppress electromagnetic interference.

Wireless Input/Output Module



Product Overview

Product	Wireless Input/Output Module
Model	TCMK5413W

Product information

TCMK5413W wireless input/output module is suitable for installation in public places, factories and other environments. When there is a fire alarm, the module can not only send an alarm signal to the control panel through wireless communication technology after receiving the closing signal, but also output the closing signal for connection with other equipment.

Technical Data

All data is supplied subject to change without notice. Specifications are typical at 24V, 25°C and 50% RH unless otherwise stated.

Battery	CR17450
Rated Operating Voltage	3V
Operating current	monitoring current $\leq 14\mu A$, alarm current $\leq 10mA$
Coding method	automatically assigned when networking
Radio frequency	transmit power $< 20dBm$
Communication method	470MHz FSK coded bidirectional
Operating environment	temperature $10^{\circ}C \sim +55^{\circ}C$ relative humidity $\leq 95\%$
Dimension	101mm*137mm*43mm
Weight	170g

the 470MHz wireless communication technology is adopted, and no embedded wiring is needed, so the engineering installation is convenient and quick;

With battery low voltage detection function, it can reflect the battery power situation in time;

The microprocessor is used to realize signal processing, and the digital signal is used to communicate with the control panel, which works stably and reliably, and has a good ability to suppress electromagnetic interference.

Wireless Sounder Strobe



Product Overview

Product	Wireless Sounder Strobe
Model	TCSG5416W

Product information

TCSG5416W wireless sounder strobe is suitable for installation in public places, factories and other environments, and is used together with JB-TB-TC5126W wireless fire alarm control panel. When the control panel receives the fire alarm instructions from other fire alarm devices, the control panel starts the alarm through wireless signals, and the alarm sends out sound and light signals to achieve the purpose of audible and visual alarm.

Technical Data

All data is supplied subject to change without notice. Specifications are typical at 24V, 25°C and 50% RH unless otherwise stated.

Battery	CR17450-2-080-02
Rated Operating Voltage	DC3V
Operating current	monitoring current ≤ 45uA , alarm current ≤ 240mA
Sound level	75dB~115dB
Coding method	automatically assigned when networking
Radio frequency	transmit power < 20dBm
Communication method	470MHz FSK coded bidirectional
Operating environment	temperature 10°C ~ +55°C relative humidity ≤ 95%
Dimension	101mm*137mm*43mm
Weight	170g

the 470MHz wireless communication technology is adopted, and no embedded wiring is needed, so the engineering installation is convenient and quick;

With battery low voltage detection function, it can reflect the battery power situation in time;

The microprocessor is used to realize signal processing, and the digital signal is used to communicate with the control panel, which works stably and reliably, and has a good ability to suppress electromagnetic interference.

No. 11-2 Kechechang Xili, Xishi Distric, Yingkou
Pilot Free Trade Zone (Liaoning) China

Website: www.tcfiretech.com
Email: info@tcfiretech.com

All information in this document is given in good faith but TC cannot be held responsible for any omissions or errors. The company reserves the right to change the specifications of products at any time and without prior notice.

A Tiancheng Group Company

© Tiancheng Fire Protection Equipment Co., Ltd.



Wireless Fire Hydrant Button



Product Overview

Product	Wireless Fire Hydrant Button
Model	TCXH5415W

Product information

TCXH5415W wireless fire hydrant button is suitable for installation in public places. When manually confirming to start the fire pump, press the start button on the fire hydrant button, and the red light of the fire hydrant button is always on, which can send a start signal to the control panel through wireless communication technology and start the fire pump at the same time; After the fire pump has been started, the fire hydrant button answer light is always on, the fire hydrant button sends an answer signal to the control panel through wireless communication technology, and the fire hydrant button enters the state of waiting for the control panel to reset. The control panel can display the coded information of hydrant button and make sound.

Technical Data

All data is supplied subject to change without notice. Specifications are typical at 24V, 25°C and 50% RH unless otherwise stated.

Battery	CR17450
Rated Operating Voltage	3V
Operating current	monitoring current $\leq 15\mu\text{A}$, alarm current $\leq 10\text{mA}$
Coding method	automatically assigned when networking
Radio frequency	transmit power $< 20\text{dBm}$
Communication distance	$\leq 50\text{m}$
Communication method	470MHz FSK coded bidirectional
Operating environment	temperature $10^\circ\text{C} \sim +55^\circ\text{C}$ relative humidity $\leq 95\%$
Dimension	96mm*95mm*50mm
Weight	190g

the 470MHz wireless communication technology is adopted, and no embedded wiring is needed, so the engineering installation is convenient and quick;

With battery low voltage detection function, it can reflect the battery power situation in time;

The microprocessor is used to realize signal processing, and the digital signal is used to communicate with the control panel, which works stably and reliably, and has a good ability to suppress electromagnetic interference.

No. 11-2 Kechechang Xili, Xishi Distric, Yingkou
Pilot Free Trade Zone (Liaoning) China

Website: www.tcfiretech.com
Email: info@tcfiretech.com

All information in this document is given in good faith but TC cannot be held responsible for any omissions or errors. The company reserves the right to change the specifications of products at any time and without prior notice.

A Tiancheng Group Company

© Tiancheng Fire Protection Equipment Co., Ltd.



Wireless Signal Extender



Product Overview

Product	Wireless Signal Extender
---------	--------------------------

Model	TC-ZJ402
-------	----------

Product information

TC-ZJ402 The wireless signal extender is suitable for home wireless alarm system and industrial wireless alarm system. The repeater uses advanced wireless transceiver technology, built-in efficient anti-collision algorithm, and can set filtering rules, so that the repeater can work reliably in the system. At the same time, the repeater supports multiple groups of channels, so that the repeater can work in complex environments and in the presence of multiple hosts, realizing mutual non-interference, truly avoiding the collision of channels, and greatly improving the coverage of wireless networks.

Technical Data

All data is supplied subject to change without notice. Specifications are typical at 24V, 25°C and 50% RH unless otherwise stated.

Main power	DC5V(Power Adapter)
Standby power	3V/2400MAh
Power consumption	monitoring≤9W , alarm≤2.2W
Operation indicator	flash when normal
Fault indicator	on when standby power fails
Communication indicator	flash when forwarding info
Wireless transmission power	19dBm
Communication distance	≤50m
Communication method	470MHz FSK coded bidirectional
Operating environment	temperature 10℃~+55℃ relative humidity ≤95%
Dimension	130mm in diameter H:48mm

Avoid excessive humidity in repeater installation position

To ensure the long-term reliability and accuracy of the repeater, the wireless performance should be checked regularly.

The free warranty period of this repeater is one year, with lifetime maintenance.

No. 11-2 Kechechang Xili, Xishi Distric, Yingkou
Pilot Free Trade Zone (Liaoning) China

Website: www.tcfiretech.com
Email: info@tcfiretech.com

All information in this document is given in good faith but TC cannot be held responsible for any omissions or errors. The company reserves the right to change the specifications of products at any time and without prior notice.



A Tiancheng Group Company



© Tiancheng Fire Protection Equipment Co., Ltd.

Independent Combustible Gas Detector of Measurement Range:0~100%LEL



Product Overview

Product Independent Combustible Gas Detector
of Measurement Range:0~100%LEL

Model JT-TC533W

Product information

JT-TC533W independent combustible gas detector with measurement range of 0 ~ 100% LEL (hereinafter referred to as detector) is suitable for civil houses with possible gas leakage. The detector uses advanced wireless transceiver technology and high-integration micro-processing chip to process data. It has the characteristics of high sensitivity and long transmission distance, and can continuously monitor indoor gas concentration. When the concentration of gas leakage in the environment reaches the alarm set value, the detector sends an audible and visual alarm signal and automatically controls the solenoid valve to cut off the gas source. At the same time, the detector sends a wireless alarm signal to the household fire alarm control panel.

Technical Data

All data is supplied subject to change without notice. Specifications are typical at 24V, 25°C and 50% RH unless otherwise stated.

Operating voltage	AC220V±15%
Sampling method	diffusion type
Power consumption	monitoring≤0.9W , alarm≤2.2W
Indicator	green indicator flashes every 4s during polling. red indicator is always on when alarming
Output method	a group of DC9V active pulse t
Alarm setting value	8%LEL±3%LEL
Communication distance	≤50m
Communication method	470MHz FSK coded bidirectional
Operating environment	temperature 10°C~+55°C relative humidity ≤95%
Dimension	80mm*52mm

Adopt high-quality gas sensor, which is stable, reliable and consistent.

Adopt precision temperature sensor to detect the ambient temperature for compensation, and completely eliminate false alarm.

It adopts 470Mhz frequency band, FSK coding, strong anti-interference ability, strong diffraction ability and long transmission distance.

No. 11-2 Kechechang Xili, Xishi Distric, Yingkou
Pilot Free Trade Zone (Liaoning) China

Website: www.tcfiretech.com
Email: info@tcfiretech.com

All information in this document is given in good faith but TC cannot be held responsible for any omissions or errors. The company reserves the right to change the specifications of products at any time and without prior notice.

A Tiancheng Group Company

© Tiancheng Fire Protection Equipment Co., Ltd.

