

WxS7800-333032

WiFi Fire Smoke+CO Smart Sensor & RTU 2-in-1 Terminal

Product Highlights

- ❖ WiFi Fire Smoke+CO Smart Sensor & RTU 2-in-1 Terminal
- ❖ 2-in-1 smart sensor(s) and RTU terminal product
- ❖ Optional DC 12V power supply
- ❖ Optional Battery power supply (ER34615H 19,000mAh/ER34615M 13,500mAh)
- ❖ Fire smoke + CO sensor, trigger alarm, built-in buzzer
- ❖ Up to 8 working simultaneously including sensors and controllers; Customization needed if more than 8 working at the same time
- ❖ RTU controlling signal and interfaces OD/PWR triggered by sensor(s) data or OTA command for solenoid valve or other devices
- ❖ Terminal and sensor parameters configurable with Configuration Tool running on PC
 - WiFi Global Bands Supported and SW Configurable
 - WiFi Uplink Transmission Cycle Configurable
 - Sensor Parameters Configurable
 - Sensor Data Report Cycle Configurable
- ❖ FOTA (Over The Air) firmware upgrade, including to upgrade loader and application images
- ❖ OTA (Over The Air) terminal running parameters supported
- ❖ Integrated internal antenna, or optional external SMA/IPEX antenna
- ❖ Optional (Public/Private) IoT cloud platform PolySuite iView
- ❖ WiFiCompliance

Specifications

Parameters	Value
Smart Terminal	
Data Report	Cross-threshold report, plus periodic report (the threshold and the periodic report cycle are both user-configurable)
Wireless	
Wireless standards	802.11 b/g/n
output power	+20 dBm in 802.11b mode
frequency range	2.4GHz-2.5GHz (2400M-2483.5M)
Data connection	UART/HSPI/I2C/I2S/Ir Remote Control
Wireless network mode	station/softAP/SoftAP+station
Network Protocol	IPv4, TCP/UDP/HTTP/FTP
Power	Power consumption in standby mode is less than 1.0 mW (DTIM3)
Antenna	Integrated internal antenna or external 1/2 wavelength whip antenna (SMA)
Mechanical	
Dimension	Diameter 128mm * height 50mm

Operating Temperature	-40C to +85C
IP protection	IP55
Electrical	
Supply Voltage	12VDC
Power Type	Battery power supply ER34615H/ER34615M or DC12V

Products includes following parts:

- ❖ PST-333032 Fire Smoke+CO Smart Sensor & RTU 2-in-1 Terminal
- ❖ WxS78xx WxS Terminal WiFi Communications Board

Configuration Tool

- ❖ iEdge4.0 WxS IoT Terminal products can be configured with PolySuite software-visual based Configuration Tool or CLI interface command or OTA via IoT platform, such as PolySuite PaaS platform iView.
- ❖ Download link <http://ota.polysense.online/wincc/ConfigurationTool.rar>

Product Image



PST-333032

Fire smoke sensor+CO Sensors & RTU 2-in-1 Smart Terminal

Related Products

Product No.	Interf.	Descriptions
PST-333031	MPI(SWITCH)	Fire smoke sensor & RTU 2-in-1 Smart Terminal
PST-333032	MPI(SWITCH)	Fire smoke sensor+CO Sensors & RTU 2-in-1 Smart Terminal

Product introduction

PST-333032 is a smoke sensing fire detection alarm+CO concentration. It adopts advanced semiconductor components and excellent production technology. It has stable operation and simple installation. It can detect the smoke and CO gas generated during the fire and send out an alarm in time.

Detection principle

Photoelectric sensor measures the concentration of smoke through a beam of light and a light sensor. When the device is designed, the light beam deviates from the sensor. When the smoke enters the sensing chamber, the smoke particles will scatter part of the light beam onto the sensor. When the smoke concentration increases gradually, more light beams will be scattered to the sensor. When the light beam reaching the sensor reaches a certain level, the buzzer will sound.

Product features

- ❖ The unique optical maze design can detect the smoke generated by the combustion of a variety of substances and has high sensitivity to black smoke
- ❖ Built in buzzer makes a strong sound after alarm
- ❖ Photoelectric sensing, anti-interference
- ❖ Metal mesh window design, dust and insect proof
- ❖ Ceiling mounted



Product parameters

Sensor	
Monitoring area	25 m ² ~ 40 m ²
Working current	<5uA(The quiescent current)
Working current	20 ~ 40mA
Output rated power	12VDC 1A、 24VDC 2A
Temperature alarm	57 °C (International)
Smoke concentration	≥0.6%
CO sensor	Detection range 0~1,000ppm Resolution: 0.5 PPM
Gas interface temperature	10%~90%
Beep volume level	85 dB at 10 feet
Interface	
Interface	Switch
Warranty	
Warranty period	1year
Mechanics	

Working temperature	- 10℃~50℃
Working humidity	45%~85%RH
Degree of protection	IP55
Size	Diameter 128mm * height 50mm

Power

Power	DC12V / DC24V / DC9V (battery powered)
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Application

The independent smoke detector can detect the smoke generated during fire and give an alarm in time. It can be widely used in computer room, instrument room, cable trench, tunnel, Internet cafe, song and dance hall, coffee shop, leisure hall, residence and other places for fire safety monitoring.

Ordering Guide

- ❖ PST-333032 needs to be used together with WxS series communication boards (WxS78xx, WxS88xx, WxS98xx, WxS99xx, WxSC8xx, WxSC9xx, WxSD8xx and CxS18xx) to form intelligent IoT terminals with different communication modes
- ❖ According to the specific scenario of use case, the enclosure and antenna of intelligent IoT terminal will be replaced to ensure the product quality and performance.
- ❖ Example of products are as follows:
 - WxS7800-333032 WiFi Series Fire smoke sensor+CO Sensors & RTU 2-in-1 Smart Terminal
 - WxS8800-333032 LoRaWAN Series Fire smoke sensor+CO Sensors & RTU 2-in-1 Smart Terminal
 - WxS9800-333032 NB-IoT (China) Series Fire smoke sensor+CO Sensors & RTU 2-in-1 Smart Terminal
 - WxS9900-333032 NB-IoT (Global) Series Fire smoke sensor+CO Sensors & RTU 2-in-1 Smart Terminal
 - WxSC800-333032 LTE Cat1 Series Fire smoke sensor+CO Sensors & RTU 2-in-1 Smart Terminal
 - WxSC900-333032 LTE Cat1 w/GPS Series Fire smoke sensor+CO Sensors & RTU 2-in-1 Smart Terminal
 - WxSD800-333032 LTE Cat4 Series Fire smoke sensor+CO Sensors & RTU 2-in-1 Smart Terminal
 - CxS1800-333032 Ethernet (RJ45) Series Fire smoke sensor+CO Sensors & RTU 2-in-1 Smart Terminal