FireSense Duo

Model No.: BFSD-200L

LoRaWAN Smoke + Carbon Monoxide Detector

Dual-sensor early warning with local alarm and connected device monitoring for smart buildings and retrofit projects.

DUAL SENSING Photoelectric Smoke + Electrochemical CO	**CONNECTED** LoRaWAN AS923
LOCAL SAFETY Audible + Visual Alarm	**CLOUD READY** BLUTA Platform + App / API Integration



BLUTA FireSense Duo

Compact ceiling-mount design

Product Overview

BLUTA FireSense Duo combines photoelectric smoke detection and electrochemical carbon monoxide sensing in one compact, battery-powered detector. It provides immediate local audible/visual warning while the BLUTA LoRaWAN communication layer enables remote alarm and device-status reporting through BLUTA gateways and cloud platform.

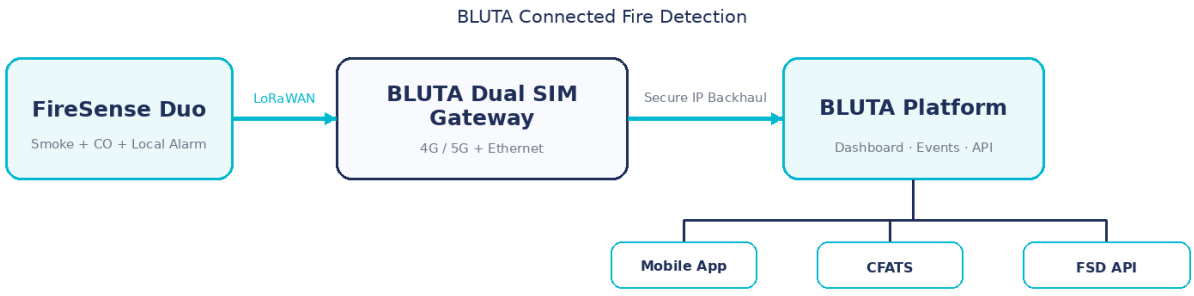
01
Two hazards, one device
Smoke and CO sensing in a single detector.

02
Works locally
Alarm functions remain available independent of cloud connectivity.

03
Fast retrofit
Battery-powered design reduces signal cabling and installation work.

04
Connected operations
Remote monitoring with app, CFATS and FSD API integration options.

Connected by BLUTA



EN 14604 | **EN 50291** | **CE** | **RoHS** | **FCC**

Certification documents are available upon request. Final supplied configuration is subject to project-specific model confirmation.

BLUTA 步泰科技 | Connected Fire & Safety

Technical Specifications

Parameter	Specification
Smoke sensing	Photoelectric / infrared optical sensing with labyrinth chamber
CO sensing	Low-power electrochemical carbon monoxide sensor
Alarm output	Local audible and visual alarm
Sound pressure level	>85 dB(A) at 3 m in front of device
Wireless connectivity	LoRaWAN, AS923 frequency plan
Platform integration	BLUTA gateway, cloud platform and mobile app
External interfaces	CFATS and FSD API integration options, subject to project requirements
Power supply	DC 3 V, 2 x 1.5 V batteries
Standby current	<=10 uA
Alarm current	<=45 mA
Battery life	Approx. 1 year under current battery configuration; actual life depends on battery and reporting profile
Operating temperature	-10°C to +50°C
Relative humidity	<=95% RH at 40°C +/-2°C
Dimensions	Ø98 mm x 43 mm, including mounting base
Weight	Approx. 159 g, including batteries
Installation	Ceiling mount

Device Functions

Smoke Alarm
Detects smoke using photoelectric sensing and activates local warning.

CO Monitoring
Monitors carbon monoxide concentration using an electrochemical sensor.

Self-Test
Local push-button test for indicator and audible alarm operation.

Silence
Temporary local silencing function for alarm handling and testing.

Low Battery
Local low-voltage indication with remote status reporting through BLUTA integration.

Remote Status
Alarm and device-health information available through BLUTA platform and mobile app.

BLUTA Platform Data & Integration

Device & Event Monitoring
- Smoke / fire alarm
- CO alarm / pre-alarm
- Low-battery status
- Device heartbeat / online status
- Gateway and communication status

System Integration
- Web dashboard and mobile app
- Alarm notification workflow
- Historical event records
- Device inventory and location mapping
- CFATS / FSD API integration options

Typical Applications

Residential & mixed-use buildings • Hotels • Offices • Warehouses • Schools • Institutional buildings • Smart-building retrofit projects