

Advanced Multi-Criteria Fire/CO Detector

World-class fire and carbon monoxide (CO) detection combined in a single addressable device provides a practical and cost-effective solution for today's market.



Advanced Multi-Criteria Fire/CO Detector installed in B200S sounder base

Features

- Unique ability to detect all four major elements of a fire
- Separate CO detection signal
- Highest nuisance alarm immunity
- Automatic drift compensation of smoke sensor and CO cell
- Uses only one address on the SLC
- RealTest® CO testing capability
- UL 268 and UL 2075 listed
- Separates audible signal for fire or CO alarm when used with the B200S base (B200SCOA in Canada)
- CO cell end-of-life warning and fault

The Advanced Multi-Criteria Fire/CO Detector (AMCF/CO) is a plug-in, addressable device that provides both fire and carbon monoxide (CO) detection. For fire, the detector combines four separate sensing elements in one unit (smoke, CO, light/flame, and heat) to sense multiple components of a fire. This approach enables enhanced sensitivity to real fire with heightened immunity to nuisance particulate. For CO, the detector's electrochemical sensing cell creates a separate signal for life safety CO detection.

Released through the incomplete burning of various fuels, CO is a colorless, odorless and deadly gas that is virtually impossible to detect with the human senses. Because the potential exists for dangerous levels of CO to accumulate in almost any building, legislation mandating the use of CO detection in commercial spaces continues to increase across the U.S. and Canada. The AMCF/CO is listed to the UL 2075 standard for system-connected life safety carbon monoxide monitoring.

The AMCF/CO should be used in conjunction with the B200S intelligent sounder base, which can generate either a Temp 3 pattern for fire or a Temp 4 pattern for CO alarm indication.

The B200S recognizes the System Sensor synchronization protocol. This enables it to be used as a component of the general evacuation signal — along with other System Sensor horns, horn strobes, and chimes — when connected to a power supply or Fire Alarm Control Panel (FACP) output capable of generating the System Sensor synchronization pulses. With each sounder base carrying a unique address, the FACP can then command an indvidual sounder — or a group of sounders — to activate. The command set from the panel can be tailored to the specific event, allowing selection of volume, tone, and group. For more information on the B200S visit systemsensor.com.

Agency Listings





7272-1653:208

S911

Advanced Multi-Criteria Fire/CO Detector Specifications

Physical Specifications		
Height	3.46" installed in B200S base	
Diameter	6.875" installed in B200S base	
Shipping Weight	4.6 oz	
Color	lvory	
Material	Bayblend FR110	
Operating Humidity Range	15 to 90% relative humidity (non-condensing)	
Application Temperature Range	32°F to 100°F (0°C to 38°C)	
Air Velocity	0 to 4000 ft/min (0 to 20 m/sec)	
Electrical Specifications		
Operating Voltage Range	15 to 32 VDC	
Maximum Standby Current	300 μ A at 24 VDC (one communication every 5 seconds with LED blink enabled)	
Maximum Alarm Current (LED on)	7.2 mA at 24 VDC	
Sensitivity Settings and Suggested	Applications	
Level 1	1% / ft of smoke	Very clean environments – laboratories
Level 2	2% / ft of smoke	Clean environments – offices
Level 3	3% / ft of smoke	Moderately clean environments -
		hotel rooms, dorm rooms
Level 4	3% / ft of smoke with different algorithm	Hotel rooms near a shower, boiler rooms
	processing and weighting of sensor elements	E
Level 5	4% / ft of smoke	Equipment rooms, kitchens, paint shops
Level 6	Thermal alarm at 135°F (57°C)	
*Once the CO cell has reached end-o Photo, Thermal, Infrared (PTIR) mode		protection; however, when the fire detector enters
Level 1	1% / ft of smoke	Very clean environments – laboratories
Level 2	2% / ft of smoke	Clean environments – offices
Level 5	3% / ft of smoke	Moderately clean environments –
Level 5	3 % / It of shloke	hotel rooms, dorm rooms
Level 6	Thermal alarm at 135°F (57°C)	
	nce – Alarm Thresholds are as Follows:	
Parts Per Million	Detector Response Time	
70 ± 5ppm	60 – 240 min.	
150 ± 5ppm	10 – 50 min.	
400 ± 10ppm	4 – 15 min.	

Per UL standard 2075, the AMCF/CO has been tested to the sensitivity limits defined in UL standard 2034.

Ordering Information

Part No.	Description	
AMCF/CO	Advanced Multi-Criteria Fire/CO Detector – Due to the unique nature of this detector, please consult your Fire Alar Control Panel Manufacturer for specific model and compatibility	
Accessories		
B200S	Addressable Sounder Base	
B200SCOA	Addressable CO Sounder Base (Canada only)	
M02-04-01	Detector Test Magnet	
M02-09-01	Telescoping Test Magnet	



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