



Mircom MIX-2251AP Advanced Protocol Intelligent Smoke Sensors User Manual

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Mircom MIX-2251AP Advanced Protocol Intelligent Smoke Sensors



Model MIX-2251AP sensor mounted in a B210LP base

Description

Mircom's low profile intelligent plug-in smoke detectors with integral communications provide features that surpass conventional detectors. Sensitivity is continuously monitored and reported to the panel where the desired detector sensitivity can be programmed. Point ID capability allows each detector's address to be set with decade address switches, providing exact detector locations for selective maintenance when chamber contamination reaches an unacceptable level.

Mircom's Advanced Protocol (AP) devices use a high speed communication protocol that greatly increases the speed of communication between the intelligent devices. Mircom's Advanced Protocol uses a superior group polling method as well as an interrupt feature that provide for a faster response to an alarm condition. In addition, the Advanced Protocol allows for greater system capacity with support for up to 318 devices per SLC circuit. The AP devices are backwards compatible to operate in CLIP mode for legacy system applications.

MIX-2251AP Intelligent Photoelectric Smoke Sensor

The MIX-2251AP provides a unique optical sensing chamber that senses smoke produced by a wide range of combustion sources.

Features

- Sleek, low profile design
- Photoelectric technology
- Available with additional fixed temperature detection
- Dual LEDs indicate communications and activate steady when in alarm
- Low profile base provides easy interchangeability
- Low standby current
- Rotary switches for direct-dial entry of address. Each unit can have address set for 01-159 for Advanced Protocol mode and 01-99 for CLIP mode
- Magnetic test feature
- Superior EMI protection

MIX-2251TAP Intelligent Photoelectric Smoke Sensor with 135°F Fixed Temperature Heat Detector

The MIX-2251TAP adds dual electronic thermistors to the MIX-2251AP to provide 135°F (57°C) fixed temperature thermal sensing.

MIX-2251TMAP Intelligent Acclimate™ Multicriteria Smoke Sensor

The MIX-2251TMAP is a photoelectric smoke detector with supplementary 135°F thermal. Also known as Acclimate™, it uses advanced on-board software to combine the signals from the photo and thermal elements.

The MIX-2251TMAP is a true multicriteria

detector capable of rejecting nuisance sources, but

still responding quickly to real fires. Acclimate has the capability of adjusting its sensitivity according to the type of environment that it is installed in and rate-of-rise thermal detection. These thermal detectors provide cost effective, intelligent property protection in a variety of applications.

Specifications

Voltage Range
15 to 32 VDC
Standby Current
300 uA @ 24 VDC (one communication every 5 sec. with LED blink enabled)
LED Current (max.)
6.5 mA @ 24 VDC (on)
Height
2.0 inches (51 mm)
Diameter
6.1 inches (155 mm) installed in B210LP Base 4.1 inches (104 mm) installed in B501 Base

Shipping Weight
5.2 oz. (147 g)
Operating Humidity Range
10% – 93% non-condensing
Operating Temperature Range
MIX-2251AP: 32°F to 120°F (0°C to 49°C) MIX-2251TAP/MIX-2251TMAP: 32°F to 100°F (0°C to 38°C)
UL Listed Velocity Range
Photo/Photo with Thermal: 0 – 4000 fpm (0 – 20 m/sec) (suitable for installation in ducts)

Ordering Information

Model	Description
Intelligent Smoke Sensors	
MIX-2251AP	Intelligent Photoelectric Smoke Sensor
MIX-2251TAP	Intelligent Photoelectric Sensor with 135°F Fixed Temperature Heat Detector
MIX-2251TMAP	Intelligent Acclimate™ Multicriteria Smoke Sensor
Bases	
B501	Intelligent Flangeless Mounting Base
B210LP	Intelligent Flanged Mounting Base
B224RB	Intelligent Relay Base
B224BI	Intelligent Isolator Base
B200SR	Intelligent Standard Sounder Base (Compatible with B501BH Series)
Accessories	
RA-100Z	Remote LED Annunciator

Add suffix "A" for ULC listed model.

NOT TO BE USED FOR INSTALLATION PURPOSES.

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Documents / Resources

	<p>Mircom MIX-2251AP Advanced Protocol Intelligent Smoke Sensors [pdf] User Manual MIX-2251AP Advanced Protocol Intelligent Smoke Sensors, MIX-2251AP, Advanced Protocol I ntelligent Smoke Sensors, Protocol Intelligent Smoke Sensors, Intelligent Smoke Sensors, Smo ke Sensors, Sensors, Smoke</p>
	<p>Mircom MIX-2251AP Advanced Protocol Intelligent Smoke Sensors [pdf] User Manual MIX-2251AP Advanced Protocol Intelligent Smoke Sensors, MIX-2251AP, Advanced Protocol I ntelligent Smoke Sensors, Protocol Intelligent Smoke Sensors, Intelligent Smoke Sensors, Smo ke Sensors, Sensors</p>

References

-  [Fire Alarm Resources | Download fire alarm documents](#)
-  [Mircom - Smart Buildings. Smarter Solutions.](#)