# ACCLIMATE™ INTELLIGENT MULTI-CRITERIA SENSOR MIX-2251TMB

## Features

- Rotary address switches for fast installations
- Reliable analog communications for trouble free operation
- Configured by the compatible Fire Alarm Control Panels for distinct methods of operation
- Age resistant polymer housing
- Dual electronic thermistor design eliminates directionality
- Superior EMI resistance for reliability
- Microprocessor based design to provide maximum features
- Simple field cleaning for code compliance
- Dual LED indicators for 360° visibility
- On board drift compensation reduces maintenance
- Transmits signal to indicate maintenance required
- Detector sensitivity increases in hot fires
- Transient smoke conditions are ignored

## Description

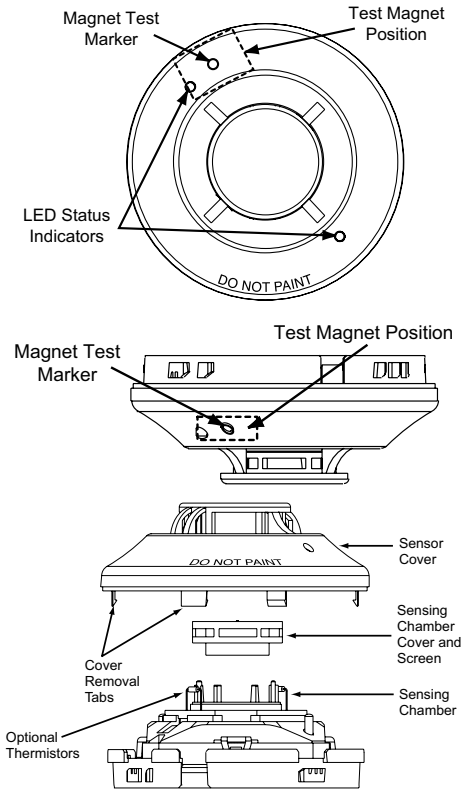
Mircom's Acclimate™ Intelligent Multi-Criteria Sensor uses advanced software to continuously sample the air in an environment and adjust its detection parameters and alarm threshold accordingly. It does this automatically, without user intervention. There's no need for an installer to set sensitivity levels at the control panel – Acclimate™ makes the educated decisions. The Multi-criteria Detection Reduces Nuisance Alarms.

Mircom's new multi-criteria sensor, Acclimate™, is an intelligent sensor in more ways than one. First, it incorporates both thermal and photoelectric technologies that interact to maximize detection. Second, an on-board microprocessor and advanced software focus on rejecting nuisance alarms.

A patented photoelectric sensing chamber and dual thermistor heat detector combine with an array of onboard software tools, to maximize fire detection. In a real fire, the smoke and heat sensors work together to make the quickest possible decision. The photo sensor is optimized for smouldering fires, the heat sensors provide a faster response to flaming fires. A dual stage drift compensation feature reduces maintenance frequency.

Acclimate™ offsets the effects of gradual dust build-up and will notify the control panel before its compensation level is reached, allowing time for maintenance. Once the compensation limit is reached, a second signal is sent to the control panel indicating an urgent need for maintenance.

## Installation

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**CATALOG NUMBER 5919**

## Operation

Mircom's Acclimate™ Sensor can be configured by the compatible Fire Alarm Control Panels for distinct methods of operation:

**Full Multi-Criteria Integration**
This method of operation allows for the Acclimate™ Sensor to provide full multi-criteria functionality.

**Time Selective Detection Sensor**
This method of operation allows for the smoke sensor portion to remain off during the configured day period and turn on during the configured night period to provide full Acclimate protection. The heat sensor is configured as an alarm input to provide continuous alarm protection. This method of operation works in conjunction with the compatible Fire Alarm Control Panels for "Day/Night" mode.

***Typical Application***

A typical application for this mode of operation is a public corridor or smoking lounge. These environments normally have a high level of product of combustion present which would cause a smoke sensor to false alarm. At night these products of combustion do not exist and the added protection of a smoke sensor can be utilized.

**Dual Functionality In One Package**
This method of operation allows for the heat sensor portion to be configured as an alarm input and the smoke sensor portion to be configured as a supervisory (latching/non-latching), trouble or monitor input. This allows the smoke portion of the sensor to act as a local intelligent smoke alarm with an optional sounder base. The heat sensor is configured as an alarm input to provide continuous alarm protection. This method of operation allows for one sensor to provide two different modes of operation, each with a distinct programmable message.

***Typical Application***

A typical application for this mode of operation is a hotel room where the smoke sensor acts as an addressable smoke alarm with a local sounder. The smoke sensor provides a local alarm while initiating an alert signal and annunciation point at the fire alarm control panel. The heat sensor acts as an addressable system alarm device which when activated initiates a general alarm.

## Specifications

**Voltage Range**
15-32 volts DC
**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. (153 g)
**Velocity Range**
0 - 4000 fpm (0 to 20.3 m/sec)
**Thermal Rating**
135°F (57°C) fixed set point
**Relative Humidity**
10% - 93% noncondensing
**Self Test Capability**
Magnet/control panel activated
**Compatible Bases**
B210LP Six-inch flange base
B501 Four-inch flangeless base
B224RB relay base
B224BI isolator base
B501BH sounder base

## Ordering Information

| Model | Description |
|---|---|
| MIX-2251TMB | Low Profile Intelligent Multi-Criteria Sensor |
| **200 Series Bases** | |
| B501 | Flangeless Mounting Base |
| B210LP | Flanged Mounting Base |
| B501BH | Standard Sounder Base |
| B224RB | Relay Base |
| B224BI | Isolator Base |

*Add suffix 'A' for Canadian models*



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