

INTELLIGENT ADDRESSABLE DEVICES

MRI-200 SERIES

Intelligent Low Profile Detectors



Model MRI-2251TB Detector Mounted in a Model MRI-B210LP Base

Description

Secutron's low profile addressable plug-in smoke and heat 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.

Model MRI-2251B photoelectric smoke detector provides a unique optical sensing chamber that senses smoke produced by a wide range of combustion sources.

Model MRI-2251BR is a remote test capable detector for use with DNR(W) duct smoke detectors.

Model MRI-2251TB adds dual electronic thermistors to the MRI-2251B to provide 135°F (57°C) fixed temperature thermal sensing.

Model MRI-2251TMB 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 MRI-2251TMB 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.

Features

- Sleek, low profile design
- Detectors are equipped with a built-in analog communications module
- Photoelectric detectors are available with additional fixed temperature detection
- Heat detectors are available as fixed temperature or fixed temperature with rate-of-rise detection
- Dual LEDs indicate communications and activate steady when in alarm
- Low profile base provides easy interchangeability
- Low standby current
- Rotary address switches
- Magnetic test feature
- Superior EMI protection

Model MRI-5251B uses an innovative thermistor sensing circuit to produce 135°F fixed temperature detection in a low profile package. These thermal detectors provide cost effective, intelligent property protection in a variety of applications.

Model MRI-5251RB provides both 135°F fixed and rate-of-rise thermal detection. These thermal detectors provide cost effective, intelligent property protection in a variety of applications.

Model MRI-5251H provides 190°F (88°C) fixed temperature detection for high temperature applications.



S6486

(MRI-5251B/RB/H



219-02-E (MRI-2251B/TB) *TMB)* 7270-1656:113 390-02-E (MRI-5251B/RB/H) (MIX-5251B/RB/H)





Canada 25 Interchange Way, Vaughan (Toronto), Ontario L4K 5W3 Tel: (905) 695-3545 Fax: (905) 660-4113 U.S.A. 4575 Witmer Industrial Estates, Niagara Falls, NY 14305 Tel: (888) 695-3545 Fax: (888) 660-4113 Web Page: www.secutron.com • Email: mail@secutron.com

Catalogue Number

Model 7251 is an intelligent, laser-based photoelectric smoke detector featuring extensive on-board signal processing capabilities designed to improve smoke response. Also known as Pinnacle[™], this intelligent detector is designed to protect valuable assets and operations where systems must remain online at all times.

Specifications

Voltage Range	The
15 - 32 volts DC peak	Fixe
Standby Current	Rate
lon/Thermal:	High
150 uA @ 24 VDC (without communication, LED off)	Ope
200 uA @ 24 VDC (one communication every 5 sec. with LED enabled)	Ion/F
Photo/Photo with Thermal:	Phot Ther
250 uA @ 24 VDC (without communication, LED off) 300 uA @ 24 VDC (one communication every 5 sec. with LED enabled)	High
Pinnacle:	Pinn
230 μA @ 24VDC (without communication)	ULL
$330 \ \mu\text{A} \oplus 24 \text{VDC}$ (one communication every 5 sec. with LED enabled)	lon:
LED Current (max.)	Phot
6.5 mA @ 24 VDC (on)	Pinn
Height	Inse
2.0 inches (51 mm)	Phot
1.66 inches (42 mm) - Pinnacle	lon:
Diameter	Self
6.1 inches (155 mm) Installed in B210LP Base	Initia Activ
4.1 inches (104 mm) Installed in B501 Base	
4.0 inches (102 mm) - Pinnacle	Smo
Shipping Weight	9 lev
Heat: 4.8 oz. (137 g)	obsc (0.06
Photo/Photo with Heat: 5.2 oz. (147 g)	Drift
lon: 5.4 oz. (154 g) Pinnacle: 5.6ox. (159 g)	
	High
Relative Humidity	
10% - 93% noncondensing	Main

Some ideal applications for Pinnacle include:

- Telecommunications switching facilities
- Cellular telephone infrastructure
- Integrated circuit fabrication facilities
- Computer rooms
- Traffic control centers
- Clean rooms

The	rmal Ratings
Fixe Rate	ed Temperature Setpoint: 135°F (57°C) e of Rise Detection: 15°F/min. (8.3°C/min.) n Temperature: 190°F (88°C)
Оре	erating Temperature Range
Pho The High	Photo: 32°F to 120°F (0°C to 49°C) to with Thermal: 32°F to 100°F (0°C to 38°C) rmal: -4°F to 100°F (-20°C to 38°C) n Temperature: -4°F to 150°F (-20°C to 66°C) nacle: 32°F to 100°F (0°C to 38°C)
ULI	Listed Velocity Range
Pho	0 - 1200 fpm (0 - 6.1 m/sec) to/Photo with Thermal: 0 - 4000 fpm (0 - 20 m/sec) nacle: 0 - 4000 fpm (0 - 20 m/sec)
Inse	ect Screen Hole Size
	to: 0.016 inch (0.41mm) nominal 0.035 inch (0.89mm) nominal
Self	⁻ Diagnostics (Pinnacle™)
	ated by control panel vated by test magnet
Smo	oke Sensitivity (Pinnacle™)
obse	vels: 0.02, 0.03, 0.05, 0.10, 0.20, 0.50, 1.00, 1.50, 2.00%/ft curation 6, 0.10, 0.16, 0.33, 0.66, 1.65, 3.24, 4.85, 6.41%/m obscura
Drif	t Compensation (Pinnacle™)
	n sensitivity maintenance alert signal sensitivity maintenance alert signal

Ordering Information Addressable Detectors

Model Description MRI-2251B Intelligent Photoelectric Detector MRI-2251BR Intelligent Photoelectric Detector. Remote test capable. For use with DNR(W) duct detectors. **MRI-2251TB** Intelligent Photoelectric Detector with 135°F Fixed Temperature Heat Detector MRI-2251TMB Intelligent Acclimate[™] Multicriteria Smoke Detector MRI-5251B Intelligent Heat Detector, 135°F fixed temperature MRI-5251RB Intelligent Heat Detector, 135°F fixed temperature with rate-of-rise detection MRI-5251H Intelligent High Temperature Heat Detector, 190°F fixed temperature 7251 Intelligent Pinnacle[™] Laser Smoke Detector

Add suffix "A" for Canadian model.

Detector Base

Model	Description
B210LP*	Flanged Mounting Base; mounts on single gang box; 3-1/2" and 4" octagonal box; and 4" square box with 3" mud ring

* Refer to Catalog Number 4001 for additional compatible B200 Series bases.

THIS INFORMATION IS FOR MARKETING PURPOSES ONLY AND NOT INTENDED TO DESCRIBE THE PRODUCTS TECHNICALLY.

Catalogue Number

For complete and accurate technical information relating to performance, installation, testing and certification, refer to technical literature. This document contains intellectual property of Mircom. The information is subject to change by Mircom without notice. Mircom does not represent or warrant correctness or completeness.