Can your fire sensor tell the difference?

![System Sensor logo]

This one can.

Acclimate™

The intelligent
fire sensor that never
stops learning.

quiet noisy clean warm cool warm cool vacant

occupied warm cool vacant occupied

The new
multi-criteria sensor,
Acclimate™, is an intelligent
sensor that incorporates both thermal
and photoelectric technologies that interact
to maximize detection. An on-board microprocessor with
advanced software focuses on rejecting nuisance alarms,

Acclimate's™ design principle is based on the fact
that things change. The environment that exists when a
fire sensor is installed often changes. One week, a facility
is used as a direct mail house, the next week it's vacant.
A storage area becomes a copy room. On Friday, a con-
ference room is overflowing with people, on Friday night,
the cleaning crew is there and on Saturday and Sunday,
it's empty. To deal with this amount of change a fire
system supplier often has to make a choice – reduced
sensitivity or increased nuisance alarms. Acclimate™
puts an end to that compromise.

Using advanced software, Acclimate™ continuously
samples the air in the environment and adjusts its detec-
tion parameters and alarm threshold accordingly. And, it
does this automatically, without user intervention. There's
no need for an installer to set sensitivity levels at the con-
trol panel – Acclimate™ makes the educated decisions.

Multi-criteria Detection Reduces Nuisance Alarms
System Sensor'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.

Sophisticated Detection Software
Patented Hardware
A patented photoelectric sensing chamber and dual ther-
mistor heat detector combine with an array of on-board
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 smoldering fires, the heat sensors are rate-of-rise
compensated to provide a faster response to flaming
fires. The on-board intelligent software combines both
signals to give and early alarm.

A dual stage drift compensation feature reduces main-
tenance 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.

Only From System Sensor
System Sensor's intelligent products are built on expertise
gained from millions of installations around the world. Our
products come to you through highly regarded Fire
Systems Suppliers. For more information, see your
supplier, visit our website or call us at 800-SENSOR2.

SYSTEM SENSOR®

# Adjusts to its environment to give superior performance.
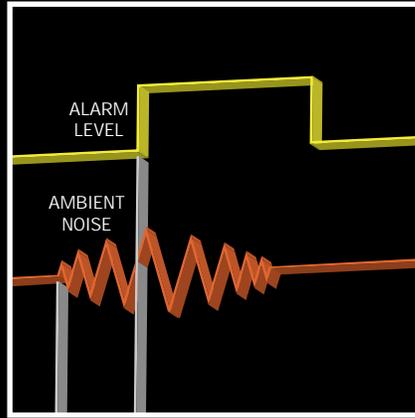
Acclimate reduces nuisance alarms.
Faced with an increase in "noise" such as dust or cigarette smoke, Acclimate will increase its alarm level. When the disturbance subsides, the unit becomes more sensitive.

ALARM LEVEL

AMBIENT NOISE

Optimized for fire detection.
Acclimate's patented photoelectric sensor produces superior detection in a smoldering fire. In a hot flaming fire, Acclimate's fire detection software combines smoke and heat signals to achieve a faster response time.

ALARM THRESHOLD

ACCLIMATE OUTPUT

SMOKE DENSITY

HEAT SIGNATURE

In a hot flaming fire, Acclimate's fire detection software combines smoke and heat signals to achieve a faster response time.

HEAT SIGNATURE

ACCLIMATE OUTPUT

SMOKE DENSITY
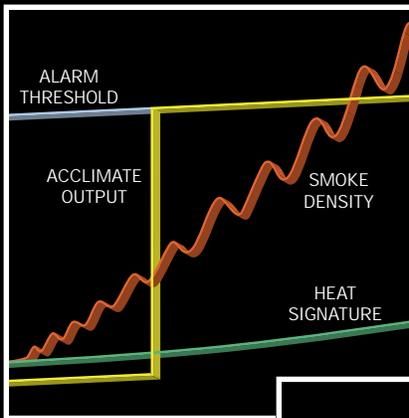
FLAMING FIRE
TIME
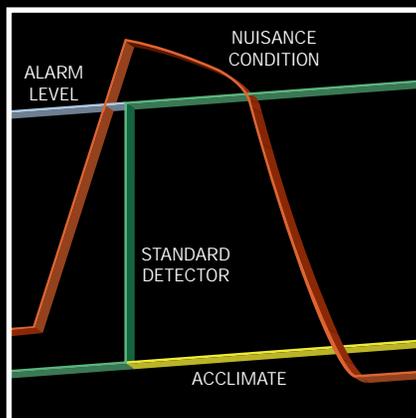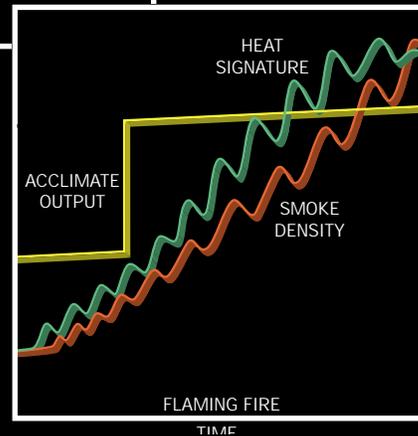
Multi-criteria sensing improves detection.
Unlike standard detectors, Acclimate avoids false alarms by looking for trends in signals and rejecting many common nuisance conditions.

NUISANCE CONDITION

ALARM LEVEL

STANDARD DETECTOR

ACCLIMATE

Acclimate™

SYSTEM SENSOR®

Product Overview

Rotary address switches for fastest possible installations

Reliable analog communications for trouble free 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

0.025″ mesh bug screen to keep unwanted insects out

Range of mounting options to meet any application

Dual LED indicators for 360° visibility

On board drift compensation reduces maintenance

Detector transmits signal to indicate maintenance required

Detector sensitivity increases in hot fires

Transient smoke conditions are ignored

Tamper-proof feature on mounting bases

Specifications

Model number
2251TM

Height
1.66" (4.2 cm)

Diameter
4.0" (10.2 cm)

Shipping weight
5.0 oz. (142 g)

Operating temperature range
32°F to 100°F (0°C to 38°C)

Relative humidity
10% to 93% noncondensing

UL listed velocity range
0 to 4000 ft. per min.
(0 to 20.3 meters per sec.)

Thermal rating
135°F (57°C) fixed set point

Voltage range
15 to 32 VDC

Self test capability
Magnet/control panel activated

Compatible bases
B210LP   6" flange base
B501   4" flangeless base
B224RB   relay base
B224BI   isolator base
B501BH   sounder base
B501BHT   temporal pattern
          sounder base

Accessories

XR2
detector removal tool

MO2-04-01
test magnet

RMK400
recessed mounting kit

SMB600
flange surface mount kit

XP-4
extension pole for XR2

MO2-09-00
test magnet with 32"
telescoping handle

SMK400
surface mount kit

RA400Z
remote LED annunciator