

# NFS2-3030

## Intelligent Addressable Fire Alarm System



Intelligent Fire Alarm Control Panels

### General

The NFS2-3030 is an intelligent Fire Alarm Control Panel (FACP) designed for medium- to large-scale facilities. Fire emergency detection and evacuation are extremely critical to life safety, and the NFS2-3030 is ideally suited for these applications. The NFS2-3030 is part of the ONYX<sup>®</sup> Series of products from NOTIFIER. The NFS2-3030 is ideal for virtually any application because it features a modular design that is configured per project requirements. With one to ten Signaling Line Circuits (SLCs), the NFS2-3030 supports up to 3,180 intelligent addressable devices.

Information is critical to fire evacuation personnel, and the NFS2-3030's large 640-character Liquid Crystal Display (LCD) presents vital information to operators concerning a fire situation, fire progression, and evacuation details.

A host of other options are available, including single- or multi-channel voice; firefighter's telephone; LED, LCD, or PC-based graphic annunciators; networking; advanced detection products for challenging environments; wireless fire protection; and many additional options.

### Features

- Certified for seismic applications when used with the appropriate seismic mounting kit.
- Approved for Marine applications when a marine-listed version is used with marine-listed compatible equipment. See DN-60688.
- Complies with UL 2572 Mass Notification Systems (NFS2-3030 version 20 or higher).
- One to ten isolated intelligent Signaling Line Circuits (SLC) Style 4, 6 or 7.
- Wireless fire protection using SWIFT Smart Wireless Integrated Fire Technology. See DN-60820.
- Up to 159 detectors and 159 modules per SLC; 318 devices per loop/3,180 per FACP or network node.
  - Detectors can be any mix of ion, photo, thermal, or multi-sensor; wireless detectors are available for use with the FWSG.
  - Modules include addressable pull stations, normally open contact devices, two-wire smoke detector, notification, or relay; wireless modules are available for use with the FWSG.
- Large 16 line, 640 character LCD backlit display or use display-less as a network node.
- Network options:
  - High-speed network for up to 200 nodes (NFS2-3030, NFS2-640, NFS-320(C), NFS-320SYS, NCA-2, DVC-EM, ONYXWorks, NFS-3030, NFS-640, and NCA).
  - Standard network for up to 103 nodes (NFS2-3030, NFS2-640, NFS-320(C), NFS-320SYS, NCA-2, DVC-EM, ONYXWorks, NCS, NFS-3030, NFS-640, NCA, AFP-200, AFP-300/400, AFP-1010, and AM2020). Up to 54 nodes when DVC-EM is used in network paging.
- Built-in Alarm, Trouble, Security, and Supervisory relays.
- VeriFire<sup>®</sup> Tools online/offline program option.



NFS2-3030 (left )  
and NFS2-3030 with DVC audio option (right)

- With built-in Degraded Mode operation, the system is capable of general alarm if a fire alarm condition is present even if the central processing unit (CPU) fails.
- Weekly Occupancy Schedules allow changing sensitivity by time of day and day of week.
- EIA-485 annunciators, including custom graphics.
- History file with 4000-event capacity in nonvolatile memory, plus separate 1000-event alarm-only file.
- Advanced history files allow sorting by event, time, date, or address.
- Alarm Verification selection per point, with automatic counter.
- Autoprogramming and Walk Test reports.
- Multiple central station communication options:
  - Standard UDACT
  - Internet
  - Internet/GSM
- Positive Alarm Sequence (PAS) Pre-signal.
- Silence Inhibit and Auto Silence timer options.
- Field-programmable on panel or on PC, with VeriFire Tools program, also check, compare.
- Non-alarm points for lower priority functions.
- Remote ACK/Signal Silence/System Reset/Drill via monitor modules.
- Up to 1000 powerful Boolean logic equations.
- Supports SCS Series smoke control system in both HVAC and FSCS modes.
- FM8320 approved Gas Detection System with FM84-2-20 module and any FM-listed gas detector.
- EIA-232 printer port.
- EIA-485 annunciator port.

# Notifier 3030 Operating Manual

**Clifford Lane**



## **Notifier 3030 Operating Manual:**

Thomas Regional Industrial Buying Guide ,2003      Comprehensive Guide to Fire Detection Systems Charles Nehme,

Welcome to the Comprehensive Guide to Fire Detection Systems In an ever evolving world where safety and technology intersect understanding the complexities of fire detection systems is crucial for both professionals and individuals concerned about fire safety This guide serves as a complete resource for navigating the diverse landscape of fire detection technologies offering insights into the various systems their components and their applications Why This Guide Fire safety is a fundamental aspect of building and personal security From homes to high rise buildings and from industrial facilities to commercial spaces effective fire detection and management systems are essential for safeguarding lives and property However the array of technologies available can be overwhelming This guide is designed to demystify these systems providing you with clear accessible information to help you make informed decisions about fire detection solutions What You Will Find in This Guide This guide is structured to cover the full spectrum of fire detection technologies and related systems categorized for ease of understanding Here s what you will discover Overview of Fire Detection Systems Learn about the fundamental concepts and importance of fire detection systems and explore the core technologies used in detecting fire smoke and heat Detailed Descriptions of Smoke Detection Systems Understand the various types of smoke detectors including ionization photoelectric and dual sensor detectors Discover advanced smoke detection methods like aspirating smoke detectors and beam smoke detectors In Depth Look at Heat Detection Systems Explore different heat detection technologies including fixed temperature heat detectors rate of rise heat detectors and line type heat detectors Gas Detection Technologies Gain knowledge about carbon monoxide natural gas and propane detectors which are crucial for detecting specific types of hazards in various environments Advanced Flame Detection Systems Delve into the technologies used for detecting flames such as infrared ultraviolet and combination UV IR flame detectors Integration of Detection Systems Learn about integrated solutions like heat and smoke detectors and discover how these systems can work together for comprehensive fire safety Smart and Networked Solutions Explore modern advancements in fire detection technology including smart smoke detectors wireless systems and networked fire detection systems for centralized management Specialized Detection Technologies Understand the roles of video smoke detection systems and air sampling smoke detectors in complex environments Maintenance Regulations and Best Practices Find guidance on maintaining fire detection systems understanding regulations and ensuring compliance with industry standards Glossary of Terms A detailed glossary clarifies technical terms and concepts used throughout the guide helping you build a solid foundation in fire safety terminology Who Should Use This Guide This guide is intended for a broad audience including Homeowners looking to enhance their home fire safety measures Facility Managers responsible for maintaining and managing fire detection systems in commercial or industrial properties Fire Safety Professionals seeking up to date information on the latest technologies and best practices

Safety Inspectors and Regulatory Authorities who need to stay informed about fire safety standards and compliance Students and Educators in the fields of fire safety and emergency management

### How to Use This Guide

You can use this guide as a reference tool or a starting point for deeper exploration into specific topics

### For Product Research

Look up specific fire detection technologies and products to find the best solutions for your needs

### For Learning

Read through the detailed sections to build or expand your knowledge of fire detection systems

### For Professional Development

Use the glossary and advanced topics to stay current with industry standards and practices

### Acknowledgments

We acknowledge the contributions of fire safety experts manufacturers and researchers whose work has made this guide possible

Special thanks to the organizations and institutions that provide standards codes and resources essential for fire safety

### Getting Started

We encourage you to explore the various sections of this guide to find the information most relevant to your needs

Whether you are a homeowner seeking peace of mind or a professional striving to meet regulatory standards this guide is designed to be a valuable resource on your fire safety journey

Welcome to the path of enhanced fire safety and knowledge

Let s begin exploring the world of fire detection systems

### Ionization smoke detectors

are a type of smoke detector that use ionization technology to detect the presence of smoke in the air

Here s a detailed overview

### How Ionization Smoke Detectors Work

#### Radioactive Material

Ionization smoke detectors contain a small amount of radioactive material typically americium 241

This radioactive material ionizes the air in a small chamber within the detector

#### Ionization Process

The americium 241 emits alpha particles which collide with air molecules creating ions charged particles

This process generates a small steady electrical current within the chamber as the ions move between two charged plates

#### Disruption by Smoke

When smoke enters the ionization chamber it attaches to the ions disrupting the flow of electrical current

The reduction in current flow is detected by the circuitry within the smoke detector

#### Alarm Activation

The decrease in current flow triggers the alarm alerting occupants to the presence of smoke and potential fire

### Characteristics and Advantages

#### Sensitivity to Fast Flaming Fires

Ionization smoke detectors are particularly responsive to fast flaming fires that produce small invisible combustion particles

These fires often spread rapidly and can be detected quickly by ionization detectors

#### Cost Effective

Generally ionization smoke detectors are less expensive than photoelectric smoke detectors

#### Widespread Use

They are widely used and can be found in many homes and commercial buildings

#### Limitations

##### False Alarms

Ionization smoke detectors are more prone to false alarms caused by cooking fumes or steam

##### Less Effective for Smoldering Fires

They are less sensitive to slow smoldering fires that produce larger smoke particles

For these types of fires photoelectric smoke detectors are more effective

#### Radioactive Material

Although the amount of radioactive material used is very small and poses minimal health risk some people may prefer to avoid products containing radioactive substances

### Installation and Maintenance

#### Placement

Install ionization smoke detectors on every level of the home inside each bedroom and outside sleeping areas

They should be placed on the ceiling or high on the wall

#### Regular Testing

Test the detectors monthly to ensure they are working properly

Most units have a test

button that can be pressed to check the alarm Battery Replacement Replace the batteries at least once a year or whenever the low battery warning sounds Some newer models come with long life batteries that last up to 10 years Replacement of Units Replace the entire smoke detector unit every 8 10 years as sensors and electronic components degrade over time Combination Detectors Many modern smoke detectors combine both ionization and photoelectric sensors to provide comprehensive protection against both fast flaming and smoldering fires These dual sensor detectors can offer enhanced safety and help reduce the likelihood of false alarms Summary Ionization smoke detectors are an effective and affordable solution for detecting fast flaming fires However for optimal fire protection especially in residential settings it s often recommended to use a combination of ionization and photoelectric smoke detectors or dual sensor units Regular maintenance and proper placement are key to ensuring these devices function correctly and provide early warning in the event of a fire **Chilton's Distribution Guide** ,1986 *Greater Allegheny Regional Industrial Purchasing Guide* ,1986

*Regional Industrial Buying Guide* ,1991 **THOMAS REGIONAL INDUSTRIAL BUYING GUIDE NORTHERN CALIFORNIA 2004** , **Professional Safety** ,2003 **Buyers' Guide for the Health Care Market** ,2000 *Greater Delaware Valley Regional Industrial Purchasing Guide* ,1987 **Flint, Michigan, City Directory** ,1967

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