

# NFS-320C

## Intelligent Addressable Fire Alarm System



Intelligent Fire Alarm Control Panels

### General

The NFS-320C Intelligent Fire Alarm Control Panel is part of the ONYX® Series of Fire Alarm Controls from NOTIFIER.

In stand-alone or network configurations, ONYX Series products meet virtually every application requirement.

The NFS-320C's modular design makes system planning easier. The panel can be configured with just a few devices for small building applications, or networked with many devices to protect a large campus or a high-rise office block. Simply add additional peripheral equipment to suit the application. For example, certain geographic regions such as Canada have specific LED annunciation requirements. To provide up to 48 zones/points in the same cabinet, add an optional ACM Series annunciator (sold separately).

### Features

- Listed to Standard ULC-S527-11.
- Certified for seismic applications when used with the appropriate seismic mounting kit.
- Approved for Marine applications when used with listed compatible equipment. See DN-60088.
- One isolated Intelligent Digital Communications Loop (DCL) Style 4, 6 or 7.
- Up to 159 detectors and 159 modules per SLC; 318 devices maximum.
  - Detectors can be any mix of ion, photo, thermal, or multi-sensor.
  - Modules include addressable pull stations, normally open contact devices, two-wire smoke detectors, notification, or relay.
- Standard 80-character display.
- Network options:
  - High-speed network for up to 200 nodes (NFS2-3030, NFS2-640, NFS-320(C), NFS-320SY-S, NCA-2, DVC-EM, ONYXWorks, NFS-3030, NFS-640, and NCA).
  - Standard network for up to 100 nodes (NFS2-3030, NFS2-640, NFS-320(C), NFS-320SY-S, 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.
- 6.0 A power supply with four Class A/B built-in Notification Appliance Circuits (NAC). Selectable System Sensor, S, or Genex strobe synchronization.
- Built-in Alarm, Trouble, Security and Supervisory relays.
- VeriFire® Tools, online or offline programming utility. Upload/download, save, store, check, compare, and simulate panel databases. Upgrade panel firmware.
- Autoprogramming and Walk Test reports.
- Optional universal 318-point DACT.
- 80-character remote annunciators (up to 32).
- EIA-485 annunciators, including custom graphics.
- Printer interface (80-column and 40-column printers).
- History file with 800-event capacity in nonvolatile memory; plus separate 200-event alarm-only file.
- Alarm Verification selection per point, with automatic counter.
- Pre-signal/Positive Alarm Sequence (PAS).
- Silence inhibit and Auto-Silence timer options.



NFS-320C

- Match time / temporal / Canadian two-stage coding, 20 ppm and temporal / strobe synchronization.
- Field-programmable on panel or on PC, with VeriFire Tools program check, compare, simulate.
- Full QWERTY keypad.
- Battery charger supports 18 – 200 AH batteries.
- Non-alarm points for lower priority functions.
- Remote ACK/Signal Silence/System Reset/Drill via monitor modules.
- Automatic time control functions, with holiday exceptions.
- Surface Mount Technology (SMT) electronics.
- Extensive, built-in transient protection.
- Powerful Boolean logic equations.

### FLASHSCAN® INTELLIGENT FEATURES

- Polls up to 318 devices in less than two seconds.
- Activates up to 159 outputs in less than five seconds.
- Multicolor LEDs blink device address during Walk Test.
- Fully digital, high-precision protocol (U.S. Patent 5,539,389).
- Manual sensitivity adjustment — up to nine levels (see individual device information for available settings).
- Pre-alarm ONYX intelligent sensing — up to nine levels.
- Day/Night automatic sensitivity adjustment.
- Sensitivity windows:
  - Ion — 0.5 to 2.5%/foot obscuration.
  - Photo — 0.5 to 2.35%/foot obscuration.
  - Laser (VIEW®) — 0.02 to 2.0%/foot obscuration.
  - Acclimate Plus™ — 0.5 to 4.0%/foot obscuration.
  - IntelliQuad — 1.0 to 4.0%/foot obscuration.
  - IntelliQuad™ PLUS — 1.0 to 4.0%/foot obscuration
- Drill compensation (U.S. Patent 5,764,142).
- Degraded mode: In the unlikely event that the FACP's micro-processor fails, FlashScan detectors revert to degraded operation and can activate the NAC circuits and alarm relay. Each

# Notifier 320 Fire Alarm Panel Installation Manual

**British Standards Institute Staff**



## **Notifier 320 Fire Alarm Panel Installation Manual:**

**Consulting-specifying Engineer** ,2007      **Specifying Engineer** ,1983      **Thomas Register of American Manufacturers and Thomas Register Catalog File** ,2002 Vols for 1970 71 includes manufacturers catalogs      *Thomas' Register of American Manufacturers* ,1996      **MacRae's Blue Book** ,1970      **Thomas Grocery Register** ,1985      *Safety Maintenance* ,1963      SFM California. Office of the State Fire Marshal,1983      Kompass ,2002      **Industrial Research Laboratories of the United States, Including Consulting Research Laboratories** Jaques Cattell Press,1979      *Fire Engineering* ,1955      *Directory of American Research and Technology* ,1979      Modern burglar & fire alarm installation manual ,1973      **Official Fire Alarm Manual of Installation and Maintenance Procedures** International Municipal Signal Association,1972      *NFPA Pocket Guide to Fire Alarm and Signaling System Installation* Merton W. Bunker Jr.,2009-12-18      *The Design, Installation, Commissioning and Maintenance of Fire Detection and Fire Alarm Systems* British Standards Institute Staff,2008-09-15 Fire alarms Fire detectors Alarm systems Fire safety in buildings Fire safety Buildings Design Installation Maintenance Classification systems Circuits Electric wiring systems Compatibility Warning devices Signal devices Sound generators Automatic control systems Manual control systems Fire compartments Position Smoke detectors Means of escape from fire in buildings Electric power systems Electric cables Radio links Inspection Electrical safety Communication networks Technical documents Visual signals Commissioning      **NFPA Pocket Guide to Fire Alarm System Installation** Merton W. Bunker, Jr.,Richard J. Roux,2006 Fully updated to reflect the provisions of the 2007 National Fire Alarm Code NFPA 72 and the 2005 National Electrical Code NFPA 70 this brand new edition provides all the information you need to design install or maintain fire alarm systems It has been reorganized to follow the order of topics presented within the NAFC and includes updated requirements for power supplies survivability and spacing of detectors and notification appliances      **NTC Brown Book** Charles Aulner,Bryan McLane,2005      **Fire Alarm Systems** Canadian Fire Alarm Association,1999      **Fire Alarm Systems : a Reference Manual** Canadian Fire Alarm Association,1986

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## **Table of Contents Notifier 320 Fire Alarm Panel Installation Manual**

1. Understanding the eBook Notifier 320 Fire Alarm Panel Installation Manual
  - The Rise of Digital Reading Notifier 320 Fire Alarm Panel Installation Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Notifier 320 Fire Alarm Panel Installation Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Notifier 320 Fire Alarm Panel Installation Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Notifier 320 Fire Alarm Panel Installation Manual
  - Personalized Recommendations
  - Notifier 320 Fire Alarm Panel Installation Manual User Reviews and Ratings
  - Notifier 320 Fire Alarm Panel Installation Manual and Bestseller Lists
5. Accessing Notifier 320 Fire Alarm Panel Installation Manual Free and Paid eBooks
  - Notifier 320 Fire Alarm Panel Installation Manual Public Domain eBooks
  - Notifier 320 Fire Alarm Panel Installation Manual eBook Subscription Services
  - Notifier 320 Fire Alarm Panel Installation Manual Budget-Friendly Options
6. Navigating Notifier 320 Fire Alarm Panel Installation Manual eBook Formats

- ePub, PDF, MOBI, and More
- Notifier 320 Fire Alarm Panel Installation Manual Compatibility with Devices
- Notifier 320 Fire Alarm Panel Installation Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Notifier 320 Fire Alarm Panel Installation Manual
  - Highlighting and Note-Taking Notifier 320 Fire Alarm Panel Installation Manual
  - Interactive Elements Notifier 320 Fire Alarm Panel Installation Manual
- 8. Staying Engaged with Notifier 320 Fire Alarm Panel Installation Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Notifier 320 Fire Alarm Panel Installation Manual
- 9. Balancing eBooks and Physical Books Notifier 320 Fire Alarm Panel Installation Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Notifier 320 Fire Alarm Panel Installation Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Notifier 320 Fire Alarm Panel Installation Manual
  - Setting Reading Goals Notifier 320 Fire Alarm Panel Installation Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Notifier 320 Fire Alarm Panel Installation Manual
  - Fact-Checking eBook Content of Notifier 320 Fire Alarm Panel Installation Manual
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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