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DN-6880 • A-20

ONYX[™] Series
NFS-3030 Intelligent
Addressable Fire Alarm System
Section: Intelligent Fire Alarm Control Panels

General

The **NFS-3030** is an intelligent Fire Alarm Control Panel designed for medium- to large-scale facilities. Fire emergency detection and evacuation are extremely critical to life safety, and the NFS-3030 is ideally suited for these applications. The NFS-3030 is part of the ONYX[™] Series of products from NOTIFIER.

The NFS-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 NFS-3030 supports up to 3,180 intelligent addressable devices.

Information is critical to fire evacuation personnel, and the NFS-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; firefighters telephone; LED, LCD, or PC-based graphic annunciators; fire or integration networking; advanced detection products for challenging environments, and many additional options.

Features

- One to ten isolated intelligent Signaling Line Circuits (SLC) Style 4, 6 or 7.
- Up to 159 detectors (any mix of ion, photo, laser photo, thermal, or multi-sensor) and 159 modules (N.O. manual stations, two-wire smoke, notification, or relay) per SLC. 318 devices per loop/3180 per FACP or network node.
- Large 640-character LCD backlit display (16 lines x 40 characters) or display-less (a node on a network).
- Network option – supports NFS-640, NFS-3030, NCA Network Annunciator, or NCS Network Control Station.
- UniNet[™] compatible.
- Built-in Alarm, Trouble, Security, and Supervisory relays.
- Up to 96 input or output panel circuits per FACP or network node; circuits configurable online.
- **VeriFire[™] Tools** online/offline program option.
- Application code is saved in Flash memory, eliminating the need to change EPROMs.
- Built-in Degraded Mode option. In the event of a CPU failure, the system is capable of general alarm if a fire condition is present.
- Weekly Occupancy Schedules allow changing sensitivity by time of day and day of week.
- Optional universal 2040-point DACT.
- EIA-485 annunciators, including custom graphics.
- Printer interface (80-column and 40-column printers).
- History file with 4000-event capacity in nonvolatile memory, plus separate 1000-event alarm-only file.
- Advanced history filters allow sorting by event, time, date, or address.
- Alarm Verification selection per point, with tally.



NFS-3030 shown in CAB-C4 backbox with 640-character display

- Autoprogramming and Walk Test reports.
- Positive Alarm Sequence (PAS) Presignal.
- Silence inhibit and Auto Silence timer options.
- March time and temporal signals supported on panel circuits.
- 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.
- Powerful Boolean logic equations — 1000!

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This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact NOTIFIER. Phone: (203) 484-7161 FAX: (203) 484-7118



NOTIFIER[®]

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- Supports SCS Series smoke control system in both HVAC or FSCS modes.
- EIA-232 printer port.
- EIA-485 annunciator port.
- **640-character display features:**
 - ✓ Backlit, 640-character display.
 - ✓ Program keypad: full QWERTY keypad.
 - ✓ Up to nine users, each with a password and selectable access levels.
 - ✓ **10 LED indicators:** Power; Fire Alarm; Pre-Alarm; Security; Supervisory; System Trouble; Other Event; Signals Silenced; Point Disabled; CPU Failure.
 - ✓ **Membrane Switch Controls:** Acknowledge; Signal Silence; Drill; System Reset; Lamp Test.
 - ✓ **LCD Display:** 640 characters (16 x 40) with long-life LED backlight.
- **FlashScan® intelligent features:**
 - ✓ Poll 318 devices on each loop in a second.
 - ✓ Activate up to 159 outputs in three seconds.
 - ✓ Multicolor LEDs blink device address during Walk Test.
 - ✓ Fully digital, high-precision protocol (U.S. Patent 5,539,389).
 - ✓ Manual sensitivity adjustment — nine levels.
 - ✓ Pre-alarm AWACS™ — nine levels.
 - ✓ Sensitivity windows:
 - Ion** — 0.5 to 2.5%/foot obscuration.
 - Photo** — 0.5 to 2.35%/foot obscuration.
 - Laser (VIEW®)** — 0.03 to 1.0%/foot obscuration.
 - Acclimate Plus™** — 0.5 to 4.0%/foot obscuration.
 - HARSH™** — 0.5 to 2.35%/foot obscuration.
 - ✓ Drift compensation (U.S. Patent 5,764,142).
 - ✓ Multi-detector algorithm involves nearby detectors in alarm decision (U.S. Patent 5,627,515).

- ✓ Automatic detector sensitivity testing.
- ✓ Maintenance alert (two levels).
- ✓ Self-optimizing pre-alarm.
- ✓ Programmable activation of sounder/relay bases during alarm or pre-alarm.
- ✓ Read Status displays the level of detector cleanliness.
- **VIEW® Very Intelligent Early Warning smoke detection technology:**
 - ✓ Revolutionary spot laser design.
 - ✓ Advanced AWACS™ algorithms differentiate between smoke and non-smoke signals (U.S. Patent 5,831,524).
 - ✓ Addressable operation pinpoints the fire location.
 - ✓ No moving parts to fail or filters to change.
 - ✓ Early warning performance comparable to the best aspiration systems at a fraction of the lifetime cost.
- **Acclimate Plus™ low-profile intelligent multi-sensor:**
 - ✓ Detector automatically adjusts sensitivity levels without operator intervention or programming. Sensitivity increases with heat.
 - ✓ Microprocessor-based technology; combination photo and thermal technology.
 - ✓ Low-temperature signal at 40°F/4.44°C (+/-5°F/-20.55°C).
- **RFX Wireless Interface System:**
 - ✓ Allows protection in areas where the use of wire is uneconomical or unpractical.
 - ✓ Allows communication with up to 80 wireless smoke detectors (SDRF-751).
 - ✓ Each RFX and detector assigned an address.
 - ✓ SDRF-751 wireless smoke detectors are powered by lithium batteries.
 - ✓ Requires 24 VDC from SLC or system auxiliary power.

