

NCD Network Control Display

General

The Network Control Display (NCD) is the next generation of network control annunciators for the NOTI•FIRE•NET™ network. Its contemporary design meets today's building aesthetics. The intuitive 1024 x 600 10" touch screen provides detailed color coded system status and point information. It is compatible with **NOTIFIER INSPIRE™** and **ONYX®** series fire alarm control panels (FACP) and nodes such as the INSPIRE N16e/x FACP, ACM-30 annunciator, LDM2-32/LDM2-60 lamp driver modules, TM-8 module and RLD remote display as well as the ONYX NFS2-3030, NFS2-640, and NFS-320 FACP.

The NCD provides system control and status/history display capabilities for all, or for selected network nodes. It can also be used as the primary display for control and status capabilities on a displayless node via Direct Connect.

Hardware Features

- Full supervision of all inputs and network integrity.
- High definition 10" 1024 x 600 color touchscreen display.
- LED status indicators for power and off normal
- Requires 24 VDC, and a network connection or direct connect.
- Three USB 2.0 connections, USB C, USB Micro, and USB A.
- Trouble Relay.
- Tamper and Trouble inputs.

Function Features

- Device information, including point address and description, can be quickly identified.
- Network-wide: Acknowledge, Silence, Reset.
- Lamp Test.
- Interactive Summary Event Count display and event handling.
- Intuitive user guidance program.
- Fully programmable node-mapping subsystem.
- Up to 2000 programmable logic zones
- Up to 32 custom action buttons
- Environmental adjustment controls to maximize display legibility.
- Color coded Icon based event notification.
- Can be used as FACP primary display.
- Supports standard and high speed network systems.
- Event vectoring for quick viewing of event groups.
- Virtual alphanumeric QWERTY keypad and numeric keypad displays when data input is needed.
- Individual Enable/Disable or group Enable/Disable for networked ONYX and INSPIRE series panels.
- Control ON/OFF for networked ONYX and INSPIRE series panel control points.
- Read Status networked ONYX and INSPIRE series panel points and zones.
- Supports both HVAC and FSCS modes for smoke control. A specialized firmware engine maps each smoke control equipment and its associated control/monitor modules to a virtual Smoke Control Appliance (SCA point), enabling automated control, monitoring, and state verification. Smoke Control Zones (SCZs) coordinate multiple appliances within a defined area, managing activation precedence, lockouts, and synchronized operation. This architecture minimizes logic equations, reduces



programming time while maintaining the flexibility needed to meet local AHJ requirements. Supports automated periodic testing and pinpoints faulty appliances.

- Virtual points create displayable, reportable events at the panel or NCD that may be activated via ACM-30 or custom Action buttons or automation through a general zone or logic zone, no longer requiring physical hardware. The virtual point may also be configured to activate a general zone themselves.
- Powerful, scalable logic engine supporting up to 2,000 logic equations, each with an extended length of up to 250 characters.
- History Buffer (10,000 events, 3000 displayed).
- Up to 50 unique users and 5 different user levels.
- Read Status from event display.
- History filters for report displaying.
- Timer control for Auto Silence, AC Fail Delay.
- Custom wallpaper
- A maximum of 80 annunciator devices can be connected to the NCD. Up to 10 annunciators can be configured as routers, each supporting 15 additional annunciators.
- External AIO Bus supports Class A (200ft on 16AWG) or Class B (6000ft at 16AWG). With Panel or NCD version V8.0 or above, the Internal AIO bus also supports Class B (6000ft at 16AWG) wiring. Any mix of ACM-30, RLD, LDM2-32/60, TM-8 may be added to the internal and/or external bus.
- Certified for seismic applications when used with the appropriate seismic mounting kit.
- Network Positive Alarm Sequence (PAS) Presignal
- Signal Silence Inhibit and Automatic Signal Silence timer options
- Meets Canadian ULC display requirements.
- Programmable DRILL participation and Alarm signal ON (ULC Specific) support
- Option to display up to 8 input zones simultaneously with event count per zone (CAN/ULCS527 Section 20.5.1 compliant)
- Support for Display and Control Center (DCC) functionality (ULC Specific)
- Selective participation of general zone in Resound by primary zone assignment
- Support for ULC4th Ed Canadian Two Stage operation for Non Zoned Alarm Sequence and Zoned Alarm Sequence.

LED INDICATORS

Green LED illuminates when 24 VDC power is applied; When on battery backup, the green LED will not illuminate.

Yellow LED illuminates when an off normal condition exists.

VIRTUAL EVENT INDICATORS

- FIRE ALARM (red) illuminates when at least one fire alarm event exists.
- CO Alarm (blue) illuminates when at least one CO alarm event exists.
- SUPERVISORY (yellow) illuminates when at least one supervisory event exists (i.e., sprinkler valve off normal, low pressure, fire pump running, guard's tour, etc.).
- TROUBLE (yellow) illuminates when at least one trouble event exists.
- POINT DISABLED (yellow) illuminates when at least one disable exists on the network or in the system.
- OTHER (varies) illuminates for SECURITY, PRE-ALARM, CO PRE-ALARM, and CRITICAL PROCESS.
- SIGNALS SILENCED (yellow) illuminates if the NCD Silence touch point has been pressed or if any other node sent a Network Silence command.

FUNCTION TOUCHPOINTS

- Menu
- Login
- Acknowledge
- Alarm Signal ON (Canada Specific)
- Signal Silence
- System Reset
- Drill

Ack (Acknowledge) Tap this touchpoint to acknowledge off all active events.

Alarm Signal ON (Canada Specific) Hold this touchpoint down for two seconds to activate all output circuits including off premise communication.

NOTE: When enabled, the drill touchpoint will be displayed in the Alert Bar.

Silence (Signal Silence) Tap this touchpoint to turn off all control modules, notification appliance circuits, and panel output circuits that have been programmed as Silenceable.

Reset (System Reset) Tap this touchpoint to clear all latched alarms and other events and clear event indicators.

Drill Hold this touchpoint down for two seconds, to activate all silenceable output circuits.

NOTE: When enabled, the drill touchpoint will be displayed in the Alert Bar.

MENU FUNCTION TOUCHPOINTS

Menu function touchpoints are accessed with the menu dialogs.

- ABOUT – tap this touchpoint to view current firmware and hardware revision numbers.
- DISPLAY – tap this touchpoint to adjust display settings.
- LAMP TEST – tap this touchpoint to test display pixels, LED indicators and piezo.

LICENSABLE FEATURES

- Expanded logic zones (250 zones included)expandable up to 2000 zones in increments of 250
- Expanded custom action buttons (8 buttons included, expandable up to 32 buttons, in increments of 8)
- Virtual Point License adds additional virtual points to the N16 panel or NCD. It may be expanded in multiples of 10 for a maximum of 511 per panel or NCD

- Smoke Control Zone License adds support for smoke control zones for N16 panel or NCD. It may be expanded in multiples of 1, 5 or 10 for a maximum of 650 per N16 or NCD
- Smoke Control Appliance License adds support for smoke control Appliances for N16 panel or NCD. It may be expanded in multiples of 1,10,25,100 or 600 with a maximum of 650 per N16 or NCD
- Smoke Control Bundle includes support for 1 Smoke Control zone and 10 Smoke control appliances. They can be expanded in multiples of 1, 5 or 10 with a maximum of 65 bundles per panel or NCD. Smoke Control Zones can be expanded further by adding SC Zone licenses

Product Line Information

NOTE: The suffix "C" indicates that the model is ULC-Listed.

NCD: Network Control Display. Requires a network communications module (NCM) for networking. In direct connect applications, the NCM is not required. UL/ULC Listed.

For English ULC applications select Regional Setting as "CANADA" in the configuration tool and download to the NCD. The following optional Non-English Languages can be selected from the NCD menu or programmed in the configuration tool and downloaded to the NCD: Canadian French, Spanish or Portuguese.

NCM-W, NCM-F: Standard Network Communications Modules. Wire and multi-mode fiber versions available. See DN-6861.

HS-NCM-W-2/MF/SF/WMF-2/WSF-2/MFSF: High-speed network communications modules. Wire, single-mode fiber, multi-mode fiber, and media conversion models are available. See DN-60454.

NBB-2: Ten inch display annunciator Backbox, surface, black. Mounts NCD and one network control module. UL/ULC Listed.

ABS-2D(C) Annunciator Surface Box: Requires DP-NCD-2D to mount an NCD.

CAB-4 Series Enclosure: Available in four sizes, "AA" through "D". Backbox and door ordered separately; requires BP2-4 battery plate. See DN-6857.

CAB-5 Series Enclosure: Available in five sizes, "A" through "E". Backbox and door ordered separately; requires BP-5 battery dress plate. See DN-62113.

DP-GDIS1: Graphic Annunciator Dress Plate, mounts the 10" graphic display and ONYX Series Annunciators in the top row of a CAB-4 Series cabinet.

DP-GDIS2: Graphic Annunciator Dress Plate, mounts the 10" graphic display and ONYX Series Annunciators in the second, third or fourth row of a CAB-4 Series cabinet.

DP-T2A: Graphic Annunciator Dress Plate, mounts the 10" graphic display and ONYX Series Annunciators in any row of a CAB-5 Series cabinet.

OPTIONAL EQUIPMENT

ACM-30: Fully-customizable annunciator. Independently-configured buttons with up to 60 points of annunciation. LEDs can be programmed to activate in red, green, yellow, white, amber, blue, cyan or purple. Up to 80 annunciators per FACP. Evaluated and approved in accordance with UL864/ULCS527 by Intertek (ETL) for use with the fire alarm control panel or NCD as a Firefighters Smoke Control Station (FSCS). UUKL Listed for use with the fire alarm control panel or NCD as a Firefighters Smoke Control Station (FSCS). See DN-62114 for system specifications and mounting hardware.

ACM-30W: Customizable Annunciator where the "TOP" LED for every switch has a fixed WHITE LED. UUKL Listed for use with the fire alarm control panel or NCD as a Firefighters Smoke Control Station (FSCS). See DN-62114 for system specifications and mounting hardware.

RLD: Remote display provides the NCD with up to ten remote, serially connected remote display. The region and language selections are determined by the N16/NCD setting. See DN-62122.

LDM2-32: Lamp driver Module for use with remote custom graphics provides 32 LED driver outputs (lamp-driver transistors sink to power common on alarm) and 10 switch inputs (one pre-configured for lamp test input). Designed to support retrofits such that output connectors, power, security key switch and lamp test connectors are all pin for pin compatible with legacy LDM-32. Connects to the panel via the AIO bus and may be set up as a router or a peripheral. Integral piezo sounds for each new alarm or trouble and is silenced with the Local Acknowledge switch, or may permanently disabled with a dip switch selection. It also offers the option of an external piezo. Evaluated and approved in accordance with UL864/ULCS527 by Intertek (ETL) for interfacing the FSCS (FireFighters Smoke Control Station) with the Fire alarm control panel or NCD. UUKL Listed for interfacing the Firefighters Smoke Control Station (FSCS) with the fire alarm control panel or NCD. See DN-0552.

LDM2-60: Lamp driver Module for use with remote custom graphics provides 60 LED driver outputs and 21 switch inputs (one preconfigured for lamp test input) Connects to the panel via the AIO bus and may be set up as a router or a peripheral. Evaluated and approved in accordance with UL864/ULCS527 by Intertek (ETL) for interfacing the FSCS (FireFighters Smoke Control Station) with the Fire alarm control panel or NCD. UUKL Listed for interfacing the Firefighters Smoke Control Station (FSCS) with the fire alarm control panel or NCD. See DN-0552.

TM-8: Panel module offers 8 programmable Form-C relays (4 low current 2A, 4 higher current 10A) and also provides either a remote station service with three reverse polarity outputs that communicate alarm, trouble, supervisory messages from the FACP or a municipal box connection that would trip a local energy municipal box. Can be located up to 6000ft from panel on RS485 bus. See DN-6863.

AIO-CBL: Cable kit that includes 48" preconfigured cables that can be used to connect AIO bus devices (ACM-30, LDM2-32, LDM2-60, TM-8) set as peripherals from one row to an adjacent row. It also includes 4 interconnect cables for connecting AIO bus devices in a row.

LDM-CBL24, LDM-CBL48: Ribbon cable sets to provide either a 24" (60.96cm) or 48" (121.96cm) connection between LDM2-32/ LDM2-60 and LEDs or lamps on a custom graphic panel. Includes all cables necessary for one LDM2-32. LDM2-60 will need two cable sets. Cables have connector on one end only (split, strip, and connect other end to graphic annunciator).

Licensable features: Individually purchased and downloaded to an NCD.

- **NCD-CAC.** Custom Action Button expansion. Adds 8 custom action buttons to an NCD panel (maximum 32 buttons).
- **NCD-LGZ.** Logic Zone expansion. Adds 250 logic zones to an NCD (maximum 2000 zones)
- **N16NCD-VP10.** Adds 10 Virtual Points to the panel or NCD
- **N16NCD-SCZ1.** Adds 1 smoke control zone to the panel or NCD
- **N16NCD-SCZ5.** Adds 5 smoke control zones to the panel or NCD
- **N16NCD-SCZ10.** Adds 10 smoke control zones to the panel or NCD
- **N16NCD-SCA1.** Adds 1 smoke control Appliance to the panel or NCD
- **N16NCD-SCA10.** Adds 10 smoke control Appliances to the panel or NCD
- **N16NCD-SCA25.** Adds 25 smoke control Appliances to the panel or NCD
- **N16NCD-SCA100.** Adds 100 smoke control Appliances to the panel or NCD
- **N16NCD-SCA600.** Adds 600 smoke control Appliances to the panel or NCD

- **N16NCD-SCB1.** Adds 1 SC Zone + 10 SC Appliances to the panel or NCD
- **N16NCD-SCB5.** Adds 5 SC Zone + 50 SC Appliances to the panel or NCD
- **N16NCD-SCB10.** Adds 10 SC Zone + 100 SC Appliances to the panel or NCD

Specifications

ELECTRICAL REQUIREMENTS

The NCD may be powered from any UL Listed non-resettable 24 VDC source from a NOTIFIER compatible fire panel (see panel data sheets).

Power source:

- The N16 on board power supply
- PMB-AUX
- The NFS2-640 and NFS-320 on-board power supply
- AMPS-24 (120 VAC, 50/60 Hz) or AMPS-24E (240 VAC, 50/60 Hz) power supply
- A supervised +24 VDC power supply that is UL-listed for fire protective service.

Current consumption: 0.360 A (Standby), 0.380 A (Alarm)

Current draw (Standby/Alarm)

- ACM-30: 0.083 A (Standby), 0.093 A (Alarm)
- LDM2-32: 0.023 A (Standby), 0.050 A with internal piezo (Alarm)
- LDM2-60: 0.023 A (Standby), 0.051 A with internal piezo (Alarm)
- TM-8: 0.081 A (Standby), 0.189 A (Alarm)
- RLD: Back light Set in Range of 1% - 50%
0.150 A (Standby, Normal Mode)
0.160 A (Alarm)

Back light Set in Range of 51% - 100%
0.200 A (Standby, Normal Mode)
0.225 A (Alarm)

PHYSICAL SPECIFICATIONS

Weight: 3 lbs (1.36 kilograms).

Temperature and Humidity Ranges: This system meets NFPA requirements for operation at 0°C to 49°C (32°F to 120°F); and at a relative humidity (non-condensing) of 85% at 30°C (86°F) per NFPA. However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and all peripherals be installed in an environment with a nominal room temperature of 15°C to 27°C (60°F to 80°F).

Agency Listings and Approvals

The file number(s) below reference the specific listings for the modules in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL/ULC Listed:** S635
- **FM Approved:** FM23FPUS0095
- **CSFM:** 7165-0028:0516
- **FDNY:** COA#001761
- **Certified for Seismic applications in accordance with IBC 2024:** VMA-45894-01C
- **OSHPD Approved:** OSP-0072
- Evaluated and approved by **Intertek/ETL** in accordance with **UL864/ULCS527** for Smoke Control and **ULCS527** for Canadian Two stage operation
- **UUKL/UUKL7** Listing Smoke Control
- **ULCS527** Listed for Canadian Two stage operation

Standards and Codes

These listings and approvals below apply to the NCD. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL 864**, 10th edition (Control Units and Accessories for Fire Alarm Systems).
- **UL 2017** (General-Purpose Signaling Devices and Systems)
- **UL 2610** (Commercial Premises Security Alarm Units and Systems)
- **ULC-S527-19** (Control Units and Accessories for Fire Alarm Systems)
- **UL 864/ULC-S527**, Smoke Control (Automatic, Manual, Water flow and Sprinkler Supervisory)
- **ULC-S527**, Two-Stage Fire Alarm System Operation (Zoned and Non-Zoned)

INTERTEK (ETL) EVALUATED AND APPROVED

- **UL864** Smoke Control (Automatic, Manual, Waterflow and Sprinkler Supervisory)

NOTIFIER

12 Clintonville Road
Northford, CT 06472
203.484.7161
www.notifier.com



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.

NOTIFIER INSPIRE™ and NOTIFIRE-NET™ are trademarks of, and
NOTIFIER®, ONYX®, and INSPIRE® are registered trademarks of
Honeywell International Inc.
©2026 by Honeywell International Inc. All rights reserved. Unauthorized
use of this document is strictly prohibited.

Country of Origin: USA

