

General

The NOTIFIER Network Control Annunciator (**NCA**) is a 640-character backlit LCD display with operator keypad for the NOTIFIER network, **NOTI•FIRE•NET™**. As a remote node on a network, it provides both system control and display capabilities for all network nodes.

The NCA is an optional display for the ONYX™ Series **NFS-640** control panel. When mounted in the control cabinet and connected to a stand-alone NFS-640 panel, it provides system control and display capabilities for a stand-alone panel. When connected to a networked panel as a primary display, it can provide network control and status/history display capabilities.

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Hardware Features

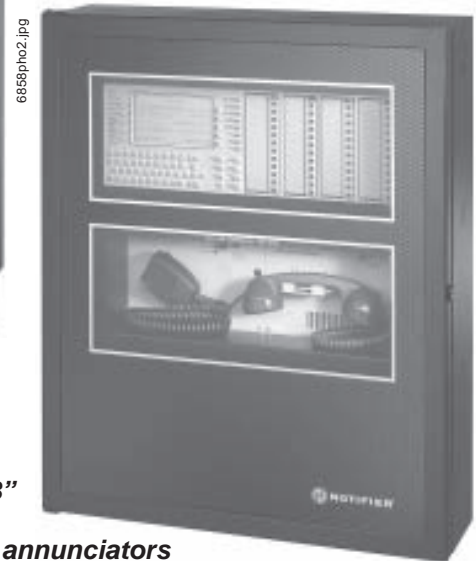
- Full supervision of all inputs and network integrity.
- Enhanced-format 640-character LCD display with backlighting.
- ACS bus for LED or graphic annunciators (EIA-485).
- Terminal bus for mimic annunciators (EIA-485).
- Optically isolated Printer/CRT interface (EIA-232).
- Keyboard interface (EIA-232).
- Ten LED status indicators:
Power, Fire Alarm, Pre-Alarm, Security Alert, Supervisory, Trouble, Signal Silence, CPU Failure, Point Disabled, Other Event.
- Alphanumeric QWERTY rubber keypad with tactile and audible feedback.
- Four status relays: Alarm, Trouble, Supervisory, Security (Form-C).
- Nonvolatile real-time clock can be synchronized with network by master node.
- Optional Security Keyswitch enable to NCA.
- Optional Security Tamper switch.
- Supports up to 32 remote ACS annunciators and modules.
- Requires 24 VDC, and either a network connection or a direct connection to the NFS-640.

Features Include...

- Individual Enable/Disable or Group Enable/Disable local and networked NFS-640 points and zones.
- Control ON/OFF of local (the NFS-640 in the same cabinet) and networked NFS-640 control points.
- Read Status of local (the NFS-640 in the same cabinet) and networked NFS-640 points and zones.
- Network event display and optional CRT with keyboard.
- Network master fire phone, paging control, HVAC control.
- Network-wide: Acknowledge, Silence, Reset.



**NCA in
ABF-2DB backbox**



**NCA as
NFS-640
display in "B"
sized CAB-4
cabinet with annunciators
and voice/telephone system**

- Lamp Test (local to NCA).
- History Buffer (200 Alarm events, 1,000 System events).
- Print NCA programming and history reports.
- Report status of networked panels and their respective field devices to a central station via a single UDACT (*see data sheet DN-4867*).
- One Master level and nine User level passwords. The Master can assign each User access levels (programming, alter status).
- Interactive Summary Event Count display, event handling package.
- Online programming and alter-status programs.
- Intuitive user guidance program including interactive soft keys.
- Enhanced Read Status/Alter Status displays.
- New history filters for report displaying and printing: All Events, Only Alarms, Only Troubles, Only Supervisory, Only Security, Time Interval, Point Range.

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

- Fully programmable node-mapping subsystem.
- New Advanced/Basic Walk-Test program.
- Timer control for Auto Silence, AC Fail Delay.
- Meets Canadian ULC display requirements.
- Environmental adjustment controls to maximize LCD legibility.
- Meets NFPA requirements for Firefighter Smoke Control Station (FSCS) and HVAC.

NCA Indicators and Controls

LED INDICATORS:

- **POWER** (*green*) illuminates when 24 VDC power is applied; LED goes out if power is removed and NCA is using a battery.
- **FIRE ALARM** (*red*) illuminates when at least one fire alarm event exists; flashes when any of these events remain unacknowledged.
- **PRE-ALARM** (*yellow*) illuminates when at least one pre-alarm event exists; flashes when any of these events remain unacknowledged.
- **SECURITY** (*blue*) illuminates when at least one security event exists; flashes when any of these events remain unacknowledged.
- **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.); flashes when any of these events remain unacknowledged.
- **SYSTEM TROUBLE** (*yellow*) illuminates when at least one trouble event exists; flashes when any of these events remain unacknowledged.
- **OTHER EVENT** (*yellow*) illuminates for any category of event not listed above (for example, Critical Process Monitor); flashes when any of these events remain unacknowledged.
- **SIGNALS SILENCED** (*yellow*) illuminates if the NCA Silence key has been pressed or if any other node sent a Network Silence command; flashes if only some points on a node are silenced.
- **POINT DISABLED** (*yellow*) illuminates when at least one disable exists on the network or in the system.
- **CPU FAILURE** (*yellow*) activated by the watchdog timer hardware, indicates an abnormal hardware or software condition. Contact technical support.

FIXED FUNCTION KEYS:

- **FIRE ALARM SCROLL/DISPLAY**
- **SECURITY SCROLL/DISPLAY**
- **SUPERVISORY SCROLL/DISPLAY**
- **TROUBLE SCROLL/DISPLAY**
- **OTHER EVENT SCROLL/DISPLAY**

The five keys above scroll through messages for the particular event type. For example, pressing the FIRE ALARM SCROLL/DISPLAY key will scroll through all fire alarm events, as details of each are shown in the NCA's display area.

NOTE: The OTHER EVENT SCROLL/DISPLAY key also scrolls between Pre-Alarm and Disabled events.

- **SIGNAL SILENCE** – press this key to turn off all control modules, notification appliance circuits, and panel output circuits that have been programmed as Silenceable.
- **DRILL HOLD 2 SEC** – press this key, holding it down for two seconds, to activate all silenceable output circuits.
- **SYSTEM RESET** – press this key to clear all latched alarms and other events and turn off event LEDs.

SPECIAL FUNCTION KEYS:

- **DISABLE/ENABLE** – press this key from the Disable/Enable screen to perform a disable or enable of the point indicated on the LCD display (lines 1 and 2). This key function is an option enabled at Level 2 programming, i.e., a password is required to enable the key.
- **PRINT SCREEN** – press this key to print what is currently on the LCD screen.

- **LAMP TEST** – press this key to test the LED indicators on the left of the keypad and to check firmware revision numbers.
- **F1** – for future use.
- **NEXT SELECTION/PREVIOUS SELECTION** – these keys are used when setting parameters in NCA data fields; for example, choosing a device type as a filter for requesting a Node History.
- **RECALL LAST ENTRY** – when scrolling through a list with the NEXT SELECTION/PREVIOUS SELECTION keys, RECALL LAST ENTRY will return to the last value programmed.
- **INCREMENT NUMBER** – for future use.

Electrical Requirements

The NCA may be powered from a Main Power Supply MPS-24A, MPS-24AE, MPS-24B, or MPS-24BE mounted in the NCA cabinet (see specifications below); from an ACPS-2406 power supply (see ACPS-2406 data sheet DN-6834); or from any UL-Listed non-resettable 24 VDC source from a NOTIFIER fire panel (see panel data sheets).

The **battery on the NCA motherboard** is for RTC and SRAM; holds the history memory through power failure. Replacements are available (LITHBATT-3V).

Primary power: **MPS-24A, MPS-24B:** 120 VAC, 50/60 Hz, 1.8 amps maximum; **MPS-24AE, MPS-24BE:** 220/240 VAC, 50/60 Hz, 0.9 amps maximum.

Secondary power, MPS-24A, MPS-24AE: 27.6 VDC, 9 to 60 AH, supervised and power-limited. Fast charge = 2 amps, trickle charge = 20 mA. **MPS-24B, MPS-24BE:** 27.6 VDC, 6.5 to 17 AH, supervised and power-limited. Fast charge = 750 mA maximum, trickle charge = 20 mA (typical).

Agency Listings and Approvals

See the first page of this data sheet for listing agencies and file numbers. These listings and approvals apply to the NCA. 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.

Product Line Information

NCA Network Control Annunciator. *Requires a NCM-W or NCM-F network communications module for network displaying.*

NCM-W Network Communications Module*, wire.

NCM-F Network Communications Module*, fiber optics.

***Note:** An NCM is required for every NCA unless it is connected directly to the CPU-640 (a single, non-networked system).

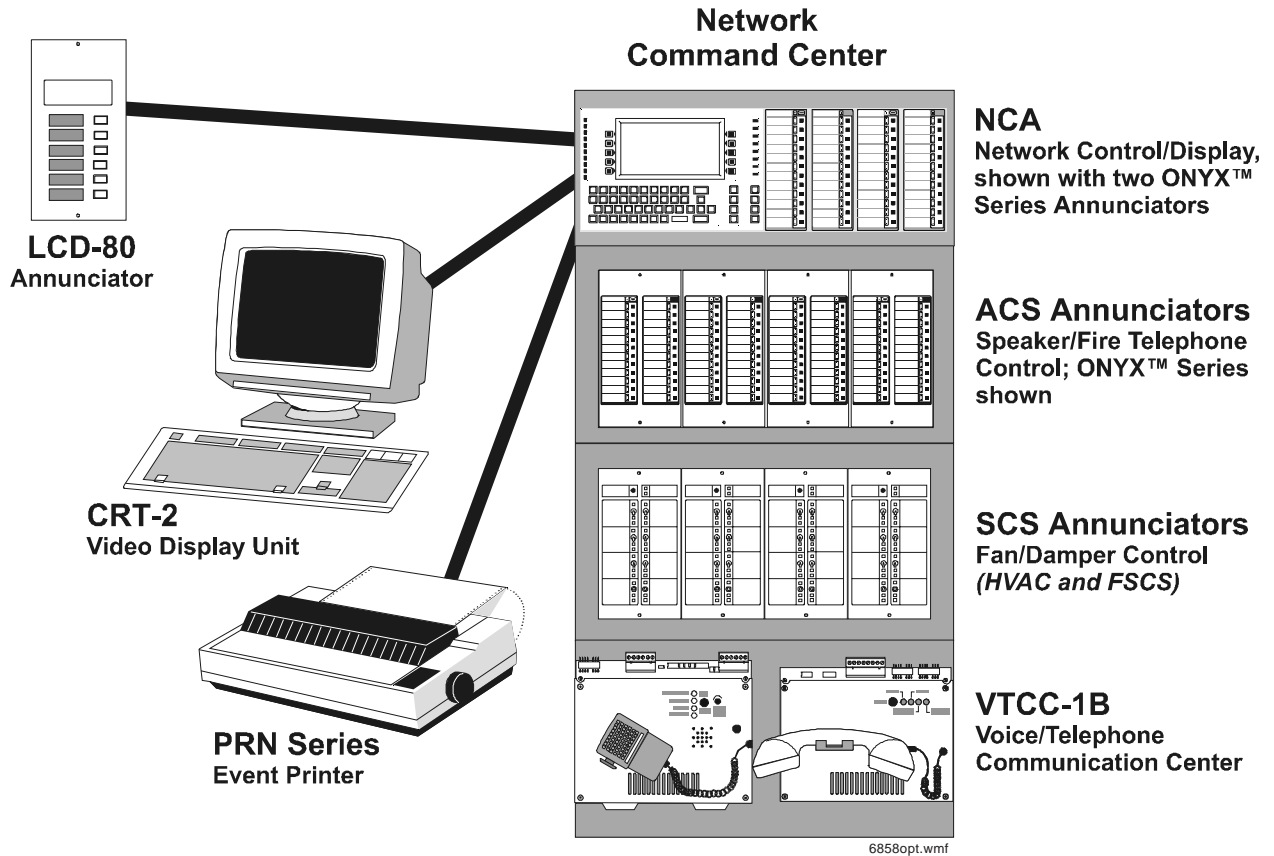
ABS-4D Annunciator Backbox. Mounts one NCA; surface or semi-flush. *Box dimensions:* 19.87" (504.7 mm) wide x 11.97" (304.04 mm) high x 3.5" (88.9 mm) deep. *Door dimensions:* 19.875" (504.83 mm) wide x 11.974" high (304.14 mm) x 1.25" (31.75 mm) deep.

ABF-2DB Annunciator Backbox. Mounts one NCA; semi-flush. *Box dimensions:* 9.188" (233.36 mm) wide x 9.938" (252.41 mm) high x 3.75" (95.25 mm) deep. *Door dimensions:* 10.375" (263.5 mm) wide x 10.713" (272.1 mm) high x 0.75" (19 mm) deep.

DP-DISP Annunciator Dress Plate. Mounts the NCA in top row of a CAB-4 Series cabinet.

ADP-4B Annunciator Dress Plate, Black. Mounts NCA in two of four available annunciator module positions.

Optional Connections



NCA Display with Sample Screen

- POWER
- FIRE ALARM
- PRE-ALARM
- SECURITY
- SUPERVISORY
- SYSTEM TROUBLE
- OTHER EVENT
- SIGNALS SILENCED
- POINT DISABLED
- CPU FAILURE

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ACKNOWLEDGE FIRE ALARM
DETECTOR ADDR ID075
ZONE 03
05:15 P FRI JAN 5, 2001 L01D075
READ ADDRESS: L01D075
MANUAL ACTIVE
ELEVATOR LOBBY EAST WING
FIFTH FLOOR 2003 SMOKE (PHOTO)
ZONE03, 2027, 2066,
VALUES: 011% OF ALARM, 045% OF PRE-ALARM
ALARM: 6=1.66%, PREALARM: 3=0.47%
ACTION/STATUS: NONE/VERY CLEAN
PEAKS: 56% VERIFY COUNT: 02 DET CO-OP: CTR
10:22:34 A TUE JAN 9, 2001
BACK
        
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- FIRE ALARM SCROLL DISPLAY
- SECURITY SCROLL DISPLAY
- SUPERVISORY SCROLL DISPLAY
- TROUBLE SCROLL DISPLAY
- OTHER EVENT SCROLL DISPLAY
- SIGNAL SILENCE
- DRILL HOLD 2 SEC.
- SYSTEM RESET

1 !	2 @	3 =	4 ,	5 %	6 :	7 \	8 .	9	0 ?	Esc	DISABLE ENABLE *	NEXT SELECTION +	
Q	W	E	R	T	Y	U	I	O	P	↑	PRINT SCREEN #	PREVIOUS SELECTION -	
A	S	D	F	G	H	J	K	L	←	↓	→	LAMP TEST &	RECALL LAST ENTRY (
Lower Case	Z	X	C	V	B	N	M	SPACE	Enter	F1 /	INCREMENT NUMBER)		