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DN-6820 • D-123

# FDU-80

## 80-Character Liquid Crystal Display Fire Annunciator

Section: Annunciators

### GENERAL

The **FDU-80** is a compact, cost-effective, 80 character, backlit LCD Fire Annunciator for use with the NOTIFIER **AFP-300**, **AFP-400**, and **AFC-600** Fire Alarm Control Panels. The FDU-80 mimics the display of the control panel and displays complete system point status information. Up to 32 FDU-80's may be connected onto the EIA-485 Terminal Mode port of each control panel. The FDU-80 requires no programming, which saves time during system commissioning.

#### NOTES:

- 1) *The FDU-80 is compatible with the NOTIFIER AFP-300/400 Rev. 3.62 or higher, and AFC-600 (all revisions).*
- 2) *The FDU-80 can be used on the same data loop as the LCD-80/LCD-80TM annunciators revision 1.6 software or higher.*

### FEATURES

- 80-character Liquid Crystal Display.
- Mimics all display information from the host panel.
- Control switches for System Acknowledge, Signal Silence, Drill and Reset with enable key.
- System status LEDs for Power, Alarm, Trouble, Supervisory, and Alarm Silenced.
- No programming necessary — FDU-80 connects to the terminal mode port.
- Displays device type identifiers, individual point alarm, trouble or supervisory, zone and custom alpha labels.
- Time and date display field.
- Aesthetically pleasing design.
- May be powered by 24 VDC from the host FACP or by remote power supplies (requires 24 VDC).
- Up to 32 FDU-80 annunciators per FACP.
- Plug-in terminal blocks for ease of installation and service.
- Can be remotely located up to 6,000 feet (1828.8 m) from host control panel.
- Local piezo sounder with alarm and trouble resound.
- **Semi-flush-mounts** to 2-3/16"/55.56 mm (minimum) deep, three-gang electrical box (NOTIFIER P/N 10103) or three-gangable electrical switchbox.
- **Surface-mounts** to NOTIFIER SBB-3 surface backbox.

### OPERATION

The FDU-80 annunciator provides the FACP with point annunciation with full display text on an 80-character LCD display. The FDU-80 also provides an array of LEDs to indicate system status, and also includes control switches for remote control of critical system functions.

The FDU-80 provides the FACP with up to 32 remote serially connected annunciators. All field-wiring terminations on the



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**FDU-80 Annunciator**

FDU-80 use removable, compression-type terminal blocks for ease of wiring and circuit testing.

Communication between the FACP and the annunciators is accomplished over an EIA-485 serial interface, which greatly reduces wire and installation cost over traditional systems. Six wires total are required: four for the EIA-485 communications (two in and two return); and two for the 24 VDC regulated power. Dip switches control local functions such as: piezo disable, control switches/key-switch disable, transmit/receive mode.

### INSTALLATION

The FDU-80 can be semi-flush mounted to a 2-3/16"/55.56 mm (minimum) deep, three-gang electrical box (NOTIFIER P/N 10103) or three-gangable electrical switchboxes. Alternately, an SBB-3 surface backbox is available for surface-mount applications.

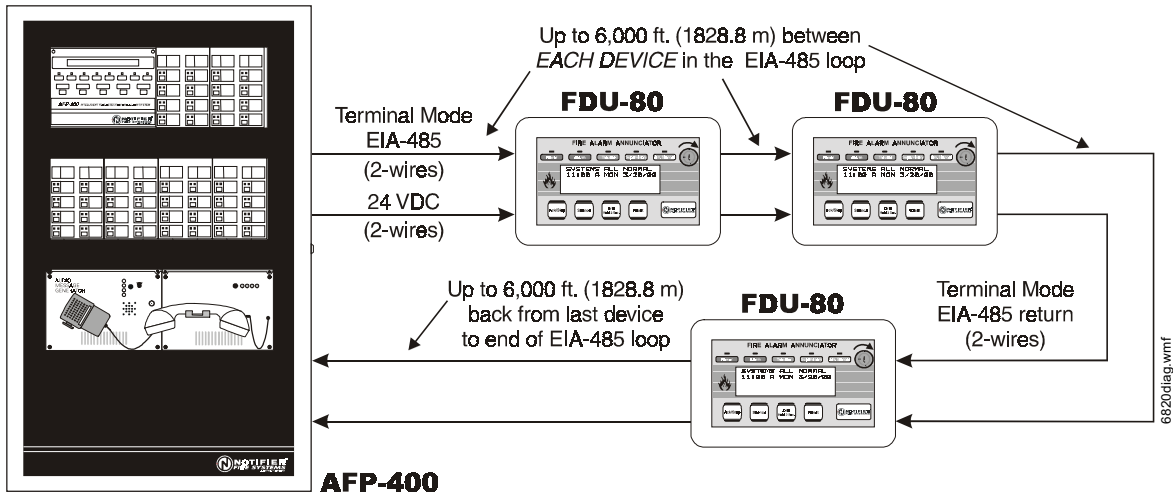
This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact NOTIFIER.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



## ORDERING INFORMATION

- FDU-80** 80 character, backlit, LCD Fire Annunciator with control switches for remote control of system functions, and key-switch lock.
- 10103** Three-gang electrical box, minimum 2-3/16" (55.56 mm) deep, for semi-flush-mount applications.
- SBB-3** Three-gang surface backbox for surface-mount applications.

## FDU-80 TERMINAL MODE WIRING EXAMPLE



### Notes:

- 1) EIA-485: Maximum of 6,000 feet (1828.8 m) cable length from FACP to FDU-80 annunciators and back to FACP (6,000 feet [1828.8 m] total). Circuit is power-limited.
- 2) Up to 32 FDU-80 annunciators may be used on the EIA-485 circuit. When multiple FDU-80's are used, certain panels will require additional power supplies (refer to panel documentation).
- 3) Between each FDU-80 annunciator are four wires: a twisted-shielded pair for data communications and a pair for 24 VDC power. The return circuit only requires two wires for data communication supervision, wired from the last FDU-80 annunciator on the loop.
- 4) On the AFP-300/400, software revision 3.62 or higher is required.

## MOUNTING TO BACKBOX(ES)

The FDU-80 annunciators can be **semi-flush-mounted** in a three-gang electrical box with a **minimum** depth of 2-3/16" (55.56 mm) (NOTIFIER P/N 10103).

The FDU-80 annunciators can be mounted in three gangable electrical switch boxes connected together.

**NOTE:** Alternately, FDU-80 annunciators can be mounted to the SBB-3 surface backbox for **surface-mount** applications.

**5-13/16" (147.6375 mm) wide x 4" (101.6 mm) high x minimum 2-3/16" (55.5625 mm) deep, three-gang electrical box (NOTIFIER P/N 10103, shown at right).**

