

FDU-80

80 Character Liquid Crystal Display

**Annunciators**

GENERAL

The FDU-80 is a compact, cost-effective, 80 character, backlit LCD Fire Annunciator for use with the NOTIFIER FireWarden-100-2, NFS-640, NFS2-640, and NFS-320 Fire Alarm Control Panels (FACPs). The FDU-80 mimics the display of the control panel and displays complete system point status information. Up to 32 FDU-80s 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 NFS-640 Rev. 2.01 or higher.
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

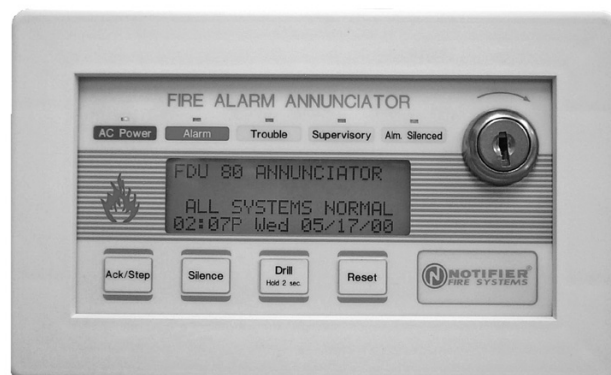
- 80-character Liquid Crystal Display.
- Mimics all display information from the host panel.
- Control switches for System Acknowledge, Signal Silence, Drill and Reset with enable key.
- System status LEDs for Power, Alarm, Trouble, Supervisory, and Alarm Silenced.
- No programming necessary — FDU-80 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 2.188"/5.556 cm (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 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



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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 2.188"/5.556 cm (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.

AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified 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 Listed:** S635
- **ULC Listed:** CS100
- **MEA Listed:** 245-00-E
- **CSFM:** 7120-0028:209
- **FM Approved**

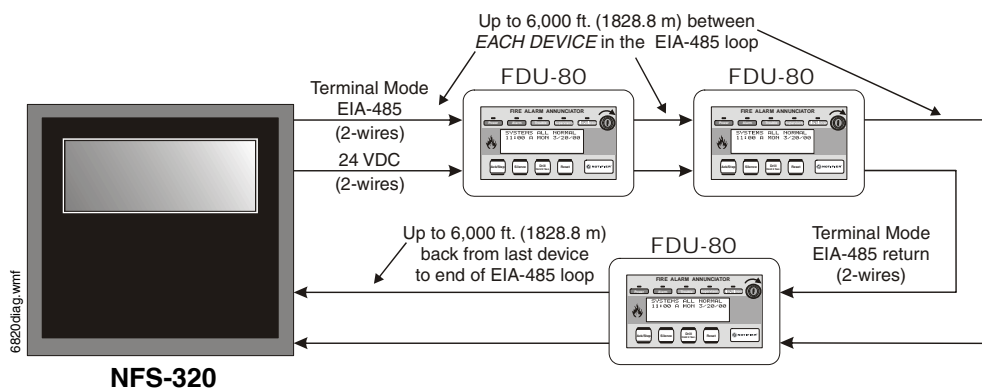
ORDERING INFORMATION

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 2.188" (5.556 cm) deep, for semi-flush-mount applications.

SBB-3 Three-gang surface backbox for surface-mount applications.

FDU-80 TERMINAL MODE WIRING EXAMPLE



NOTES:

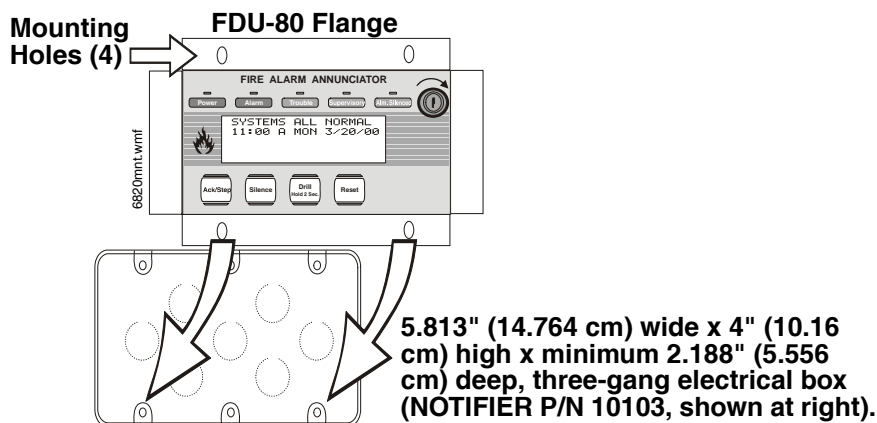
1. EIA-485: Maximum of 6,000 feet (1828.8 m) cable length from FACP to FDU-80 annunciators and back to FACP (6,000 feet [1828.8 m] total). Circuit is power-limited.
2. Up to 32 FDU-80 annunciators may be used on the EIA-485 circuit. When multiple FDU-80s are used, certain panels will require additional 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 2.188" (5.556 cm) (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.



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