

# LCD-160

## Liquid Crystal Display



Annunciator Control Systems

### General

The LCD-160 is a 640-character Liquid Crystal Display (LCD) annunciator and remote control for the NOTIFIER NFS-3000/ NFS32-3000 Fire Alarm Control Panel (FACP). The LCD-160 will mimic the top portion (160 characters) of the NFS-3000/ NFS32-3000's 640-character display. This provides the event and preprogrammed custom messages as displayed on the main panel. The full screen contains soft key functions, and can display other panel information.

### LCD-160 Features

- 640-character Liquid Crystal Display with backlit control.
- On-board input, output, and status indicators to support diagnostics.
- Software upgraded and foreign-languages character sets via serial port from a panel or other device using the Remote Data Port (RDP) interface. Upgrades do not require the replacement of any programmable devices.
- Rubberized keypad.
- Input for AKS-1B key switch.
- Fits in two AGS annunciator module locations.
- Display and Control Center (DCC) participation/indications.

### RDP Interface

Any communication between the control panel and any RDP device, such as the LCD-160, occurs over an RDP interface.

- RDP interface: communication is supervised by the FACP and the LCD-160.
- RDP bus can drive up to 32 RDP devices. The FACP must be at one end of the bus; the last RDP device on the circuit must have an enabled end-of-line resistor.
- Each LCD-160 on the bus requires a non-resettable 24 VDC power connection. The power circuit is inherently supervised and a loss of power registers as a communication failure at the control panel.
- The LCD-160 can be powered by a regulated remote power supply listed for fire-protective signaling use. If the 24 VDC power comes from a non-power-limited source, it must remain separate from the power-limited RDP bus.

### Specifications

**Input supply voltage (TB2):** Regulated, filtered 24 VDC via non-resettable power supply interface listed for fire-protective signaling use. Sources can be: panels with integrated power supplies, main power supplies (AMPS-24, etc.), auxiliary power supplies (APSS-6R, etc.); or a compatible accessories output, if RDP devices are to be powered by separate power supplies, a common reference connection must be established.

**Data communications port (TB1):** Power-limited RDP interface.



**Current draw:** Standby current: 0.300 A with backlight on, 0.275 A with backlight off. Alarm current: 0.325 A with backlight on, all LEDs active.

### RDP BUS WIRING SPECIFICATIONS

**Wiring distance:** 4000 feet (1219.2 m) at 18 AWG (0.78 mm) between the panel and the last device on the RDP bus (subject to system's power restrictions).

**Wiring size:** 18 to 12 AWG (0.78 to 2.1 mm) twisted-pair cable, with characteristic impedance of 100 ohms  $\pm$  50%.

**Wire resistance:** Limit total wire resistance to 100 ohms on the RDP bus, and 10 ohms on the RDP device power circuit. Unloaded resistance between RDP connectors must be greater than 1K ohm. A remote power supply is required if total power wiring resistance exceeds 10 ohms.

**NOTE:** 1) DO NOT RUN CABLE adjacent to, or in the same conduit as: 750 MHz service, "heavy" electrical circuits that are powering mechanical bells or horns, audio circuits above 250 MHz, motor control circuits, 500V power circuits, or non-power-limited circuits. 2) Refer to LCD-160 Manual, document no. 2-0050, if RDP devices are to be mounted in SEPARATE CABINETS or powered by REMOTE POWER SUPPLIES.

### PHYSICAL SPECIFICATIONS

**Temperature/humidity range:** This system meets NFPA requirements for operation at 0 – 40°C/32 – 100°F and at a relative humidity 90%  $\pm$  5% (noncondensing) at 30°C  $\pm$  2°C (86°F  $\pm$  3°F). 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 its peripherals be installed in an environment with a normal room temperature of 15 – 27°C/60 – 80°F.

**Shipping weight:** 2.50 lb. (1.134 kg)

# Lcd 160 Manual

**Ying-Ying Zheng**



**Lcd 160 Manual:**

## Whispering the Secrets of Language: An Mental Quest through **Lcd 160 Manual**

In a digitally-driven world wherever screens reign supreme and immediate connection drowns out the subtleties of language, the profound secrets and psychological nuances hidden within phrases often move unheard. However, situated within the pages of **Lcd 160 Manual** a interesting fictional prize sporting with natural emotions, lies an exceptional journey waiting to be undertaken. Written by a talented wordsmith, that marvelous opus invites readers on an introspective journey, gently unraveling the veiled truths and profound influence resonating within the cloth of every word. Within the emotional depths of this poignant review, we can embark upon a genuine exploration of the book is key styles, dissect its charming publishing type, and fail to the strong resonance it evokes serious within the recesses of readers hearts.

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