



TIP-224A

ANALOG ADDRESSABLE NOTIFICATION HORN

Technical Manual

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General

Telefire's TIP-224A is an analog addressable device that integrates an indoor horn and an addressable output card, eliminating the need for an output module installed in a separate box, therefore reducing material and labor cost. As an added benefit, the unit contains a high-brightness LED. The TIP-224A is compatible with the ADR-3000 Analog Addressable Control Panel.

The address of the TIP-224A is programmed into the memory of the horn and can be assigned or changed by using the PROG-4000 programmer.

The horn contains an alarm LED that is viewable from 360°. This LED flickers when polled by the control panel, indicating normal operation. During an alarm THE TIP-224A will sound interrupted beeps and the LED will flicker more rapidly and brightly than during normal operation.

Application

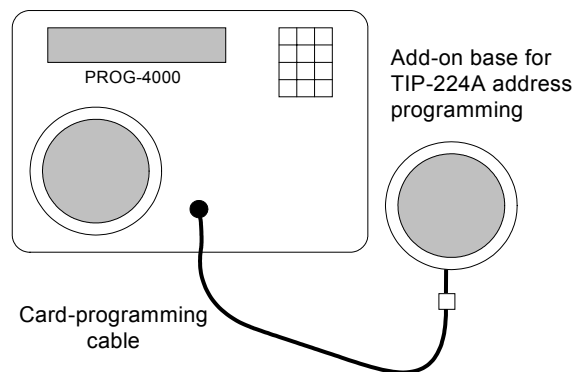
The TIP-224A is intended for indoor use wherever there is a need for an indoor audible alarm.

Installation

When installing the TIP-224A you should observe NFPA 72 guideline and local fire code.

Note: Although the TIP-224A is an analog addressable device it uses the TFB-110 Standard Detector Base.

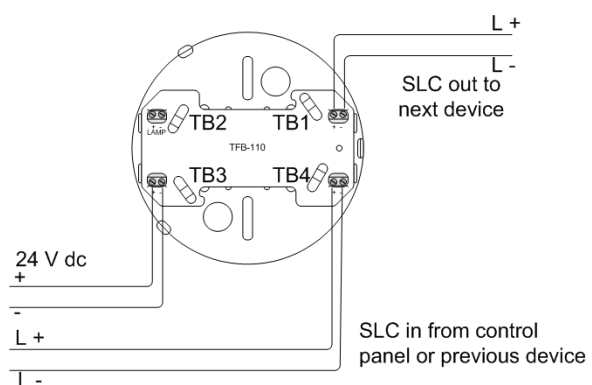
Use the PROG-4000 programmer to program the TIP-224A's address. Plug the card-programming cable to the programmer's "Card Prog" output and connect the add-on base for TIP-224A horn to the cable. See the PROG-4000 manual for specifics of address programming



Wiring

Notify the operator or security personal that the system will be temporary disconnected if installing in an existing system.

Please note that the TIP-224A requires a four-wire connection: two SLC wires and two wires for 24Vdc input. The 24 Vdc can be supplied via the ADR-3000 control panel or from an ADR-34/A Analog Addressable Power Supply.



Disconnect all power sources before any field wiring is carried out.

All wiring must conform to applicable local codes, ordinances and regulations.

1. Connect the SLC Loop wires coming from the control panel to terminal TB-4 (LINE OUT).
2. Connect the outgoing SLC Loop wires to terminal TB-1 (LINE OUT).
3. Connect the 24Vdc power supply to TB-3 (LINE IN) according to proper polarity.
4. Do not connect anything to TB-2 (N.C.). This terminal should remain not connected.

Maintenance

The TIP-224A is a maintenance-free device and requires no maintenance other than those mandated by local fire regulation code.

Periodic Testing

Fire alarm systems should be checked twice a year. Service requirements in some countries may specify a different frequency.

Test Procedure

Testing can be performed in one of two ways:

1. Apply a magnet to the side of the TIP-224A next to the LED for 3 – 5 seconds. This activates an internal testing circuit that will sound the horn for about four seconds.
2. Initiate an alarm by activating a detector or call-point.

Specification

Diameter:	124 mm including base
Height:	58 mm including base and LED
Operating Temperature Range:.....	0°C – +49°C (32°F – +120°F)
Operating Voltage (supplied by Telefire's ADR-3000).....	20 V modulated
Minimum sound pressure level.....	105 dBA/30cm
Sound Frequency	2900 ±500 Hz
Standby Current:	120 µA
Alarm Current:	50 mA

Specifications are subject to change without prior notice.

Certification

Telefire's TIP-224A Analog Addressable Notification Horn has the following approvals:

- SI 1220 Approved
- EN54 Approved