![EVAX logo](by POTTER)

Installation Manual: EVAX 300E/400E/500E/600E Voice Evacuation System

NOTICE TO THE INSTALLER

This manual provides an overview and the installation instructions for the EVAX 300E/400E/500E/600E Voice Evacuation Interface System.

All terminals are power limited and should be wired in accordance with the requirements of NFPA 70 (NEC), NFPA 101 (Life Safety Code) and NFPA 72 (National Fire Alarm Code). Failure to follow the wiring diagrams in the following pages will cause the system to not operate as intended. For further information, refer to the control panel installation instructions.

The module shall only be installed with listed control panels. Refer to the control panel installation manual for proper system operation.

1. Description

The EVAX-300E / 400E / 500E / 600E are complete Voice Evacuation Panels with built-in tone generators capable of operating as a stand-alone Voice Evacuation Systems with only tone and microphone amplification. It is designed to be used in conjunction with a UL listed Fire Alarm Control Panel (FACP) to provide a Listed Voice Evacuation Alarm System. The FACP provides all initiating circuitry and a signaling circuit to the EVAX 300E/400E/500E/600E. The EVAX 300E/400E/500E/600E provides its own internal supervision as well as supervision for its speaker lines. Any fault is reported back to the FACP. In normal standby the supervisory circuit from the panel is connected to a matching EOLR. Should the EVAX 300E/400E/500E/600E suffer an internal failure or should there be any fault on the speaker line a contact would open and the FACP would report it as an open fault for that circuit.

The EVAX 300E/400E/500E/600E is designed to be powered from 120 VAC at 60 Hz. The EVAX 300E/400E/500E/600E will provide 100W to each speaker circuit. Speakers may be 25 or 70 Vrms (jumper selected, 25V is factory set). Different Model numbers are derived from the amplifier sizes used together: These multiple amplifier configurations are factory setup and pre-wired. When using any EVAX300E/400E/500E/600E refer to installation instructions 5403670 and 5403672.

EVAX 300E contains three (3) EVX-100E, and three (3) speaker circuits
EVAX 400E contains four (4) EVX-100E, and four (4) speaker circuits
EVAX 500E contains five (5) EVX-100E and five (5) speaker circuits
EVAX 600E contains six (6) EVX-100E and six (6) speaker circuits

2. Installation and Wiring

Install equipment in a clean, dry environment, avoid installation where equipment could be subjected to vibration. Remove electronic assemblies from the enclosure prior to any drilling or punching of the enclosure. Where possible, make all cable entries from the rear or sides. Before making any modifications to the enclosure, be certain that they will not interfere with assemblies or batteries.
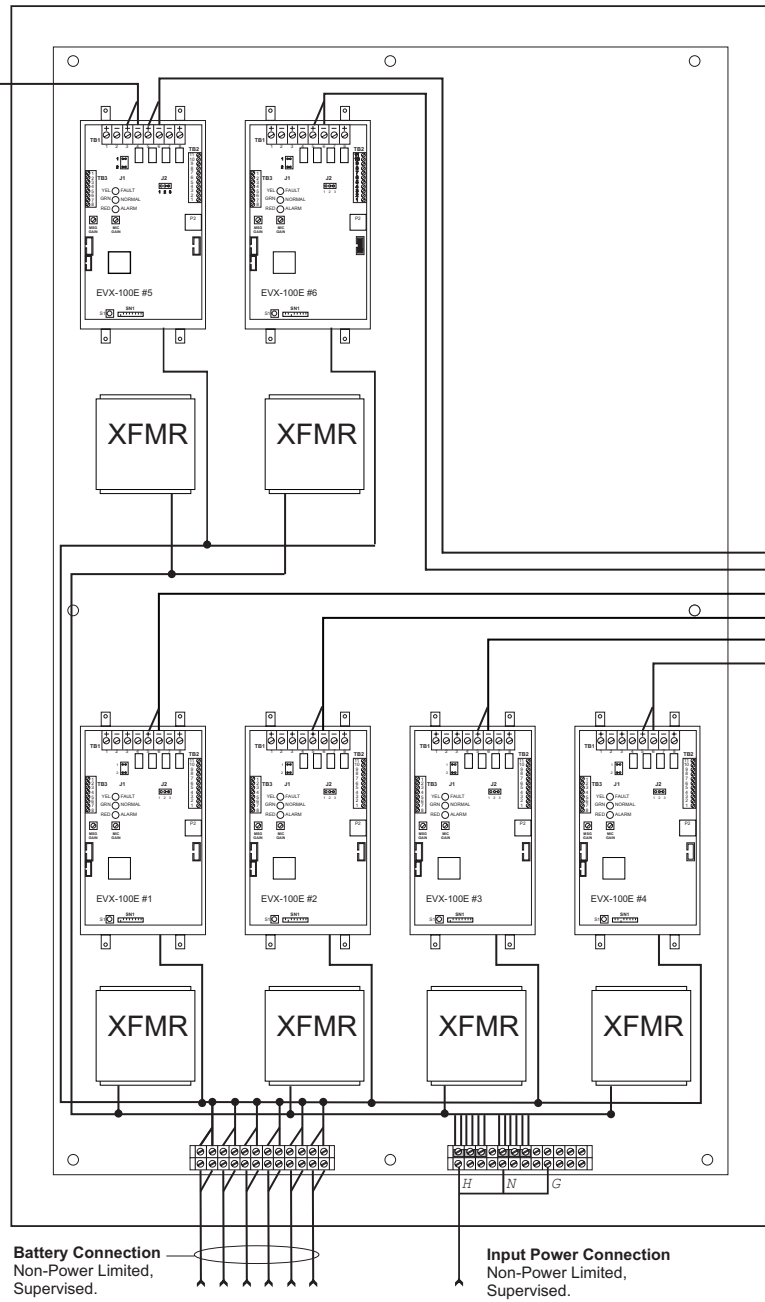
Install equipment adjacent to FACP or FACP Annunciator to ensure proper reporting and display of system Fault conditions.

Refer to installation instructions 5403670 and 5403672 for wiring, terminal designation diagrams and Electrical Ratings.

EVAX 300E / 400E / 500E / 600E
Cabinet Layout

NAC Circuit
Power Limited, Supervised. For wiring details see P/N 1-5001 R2.14 WIRING DIAGRAM 1.

Speaker Circuits
Power Limited, Supervised. Refer to 1-5001 R2.14 - WIRING DIAGRAM 1 for speaker wiring details.

Do Not route any Power Limited wiring within 1/4" of Non-Power Limited wiring.

XFMR XFMR

EVX-100E #5   EVX-100E #6

XFMR XFMR XFMR XFMR

EVX-100E #1   EVX-100E #2   EVX-100E #3   EVX-100E #4

H   N   G

Battery Connection
Non-Power Limited, Supervised.

Input Power Connection
Non-Power Limited, Supervised.