

Overview

The SIGCOM MNS-100BAS is a modular, state-of-the-art emergency communications system designed for a variety of voice alarm and mass notification applications. The system is ideally suited as a voice evacuation extension of existing fire alarm systems. It meets the stringent requirements of NFPA 72, UL864 9th edition, and UFC 4-021-01.

The MNS-100BAS accommodates virtually any host alarm system, integrating as quickly and easily as a single primary connection to a NAC output from the FACP. Many of the pre-set configurations will provide a complete mass notification capability right out of the box. Additional activation is by a single supervised input from a dry contact closure, or by 8 dry contact closures.

Numerous audio inputs are provided for maximum control flexibility and system access. A supervised remote microphone input is provided for central placement for emergency personnel. A high priority supervised audio input is provided that overrides lower priority activations. The system also provides a 25 V_{RMS} speaker-level input to allow power booster operation (see below). An additional non-supervised audio input provided; this lowest-priority input can be used for paging or background music as application needs dictate.

A highly efficient, Class D, 100 Watt digital audio power amplifier drives four selectable power-limited speaker circuits in the standard configuration. All speaker circuits are continuously supervised, even while activated. Each speaker can be configured for Class A or B wiring without loss of speaker circuits. Amplifier output voltage is 25 V_{RMS} standard. An optional transformer can be configured for 70 V_{RMS} output for longer speaker runs with low signal loss. An audio power boost option is also available for additional output power in multiples of 100 Watts.

The MNS-100BAS provides simple field programming of a variety of its features. These can be as simple as its response to contact closure inputs, or to the setting of internal SIP switch banks.



Features

- 100 Watt, highly efficient Class D digital audio amplifier
 - 4 speaker circuits (Class A or B wiring) Reverse polarity supervised FACP-NAC primary input
 - Supervised dry contact closure primary activation input
 - 2 standard messages preloaded, ready to go
 - Up 9 messages possible, contact factory for detail
 - Prioritized contact closure activation inputs
 - On-board DMR with up to 9 messages/6-1/2 minute capacity
 - Field-programmable 10 minute timeout of message annunciation
 - Remote microphone input
 - Aux audio inputs for paging, background music, and remote system control
- #### Options
- Remote microphone
 - 70 VRMS transformer
 - Common alarm and trouble relays
 - Audio power booster function

The power supply, battery back-up and charger are provided internally to the MNS-100BAS. LED indicators are provided for POWER (green), ACTIVE (red), and SYSTEM FAULT (yellow). The MNS-100BAS is housed in a 14-³/₁₆"W x 18-⁵/₈"H x 4"D surface or semi-flush mounted painted steel enclosure.

Available options for the MNS-100BAS include a remote microphone, a 70 V_{RMS} transformer, common alarm and trouble relay card, , and the audio power booster panel.

Options

70 V_{RMS} Speaker Output

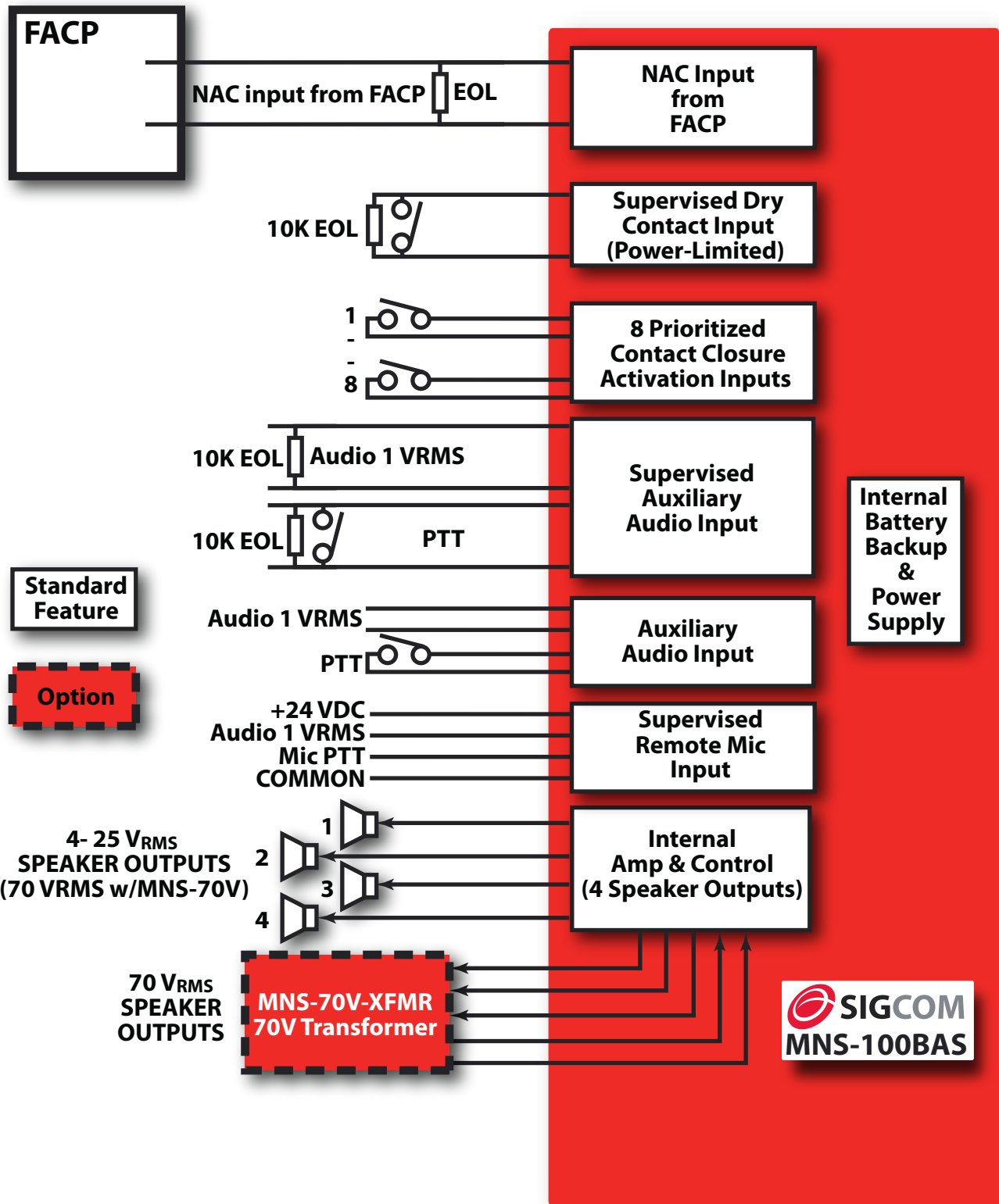
Audio output power loss due to long speaker runs can be compensated for by installing the MNS-70V-XFMR 70 Volt Transformer. The transformer is contained in a small external cabinet that connects to the MNS-100BAS. All speaker circuits maintain active supervision and provide full output power. *(For more information, please refer to the MNS-70V-XFMR data sheet.)*

Common Alarm and Trouble Relays

The MNS-3-REL 3-Relay Card provides three Form-C relay contact outputs to signal external devices in the system. The three outputs are typically used as Active and Trouble indicators, with the third used for other applications. *(For more information, please refer to the MNS-3-REL data sheet.)*

Audio Power Boost

Larger facilities often require audio power greater than the 100 Watts output power the MNS-100BAS can provide. For these applications, an MNS-100APB Audio Power Booster panel can be added to act as a supervised remote 100 Watt power amplifier with its own 4 speaker outputs. As many MNS-100APB cabinets may be connected to the MNS-100BAS as needed to provide full facility coverage. In this configuration, the supervised audio input accepts a 25 V_{RMS} typical speaker-level input, and broadcasts it to its speaker outputs. *(For more information, please refer to the MNS-100APB data sheet.)*



Standard Feature

Option

SIGCOM MNS-100BAS Mass Notification System

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