Centralized¹ Banked Amplifiers

Overview 2

EST3 supports centralized (banked) amplifier configurations for Mass Notification/Emergency Communication (MNEC), life safety, and emergency signaling.

Model 3-ZA20 Zoned Amplifiers at the EST3 control panel provide 4 a channel source(s) for banked amplifiers. The 3-ZA20 amplifiers can select any one (at a time) of the EST3 eight audio channels as a signal source. Examples include; page, alert and evacuation. Standby Amplifier(s) are an option.

Special interface modules, the 3-ATPINT, or MN-ABPM panel-mount, accept analog audio signals @ 25 or 70 Vrms from EST3's zoned amplifiers and passes these signals to the 1B3-125 and 1B3-250 audio power amplifiers via an Amplifier Terminal Panel (ATP). The 3-ATPINT can pass supervised audio signals to other ATPINTs within a local amplifier bank or to other remote banks of amplifiers. The 3-ATPINT mounts on the ATP.

The ATP Audio Terminal Panel interfaces one or two audio power 6 amplifiers and monitors utility power, charges and supervises standby batteries, and provides switch-over to standby. Audio risers connect at this panel. It also has an integral trouble signal and silence switch.

The EST3 System monitors and controls the amplifier bank through 7 Signature series modules such as the SIGA-CT1 or 2 input modules and the SIGA-CR control relay. MR-201/C or MN-204/C relays provide DPDT contacts for switching power amplifier risers when a system has standby amplifiers.

SIGA-CC1 (Single Channel) or CC2 (Dual Channel) output control 8 modules command and supervise each audio circuit or zone. The SIGA-RM1 Riser Monitor Module provides audio riser supervision.

Standard Features 9

- Large Supervised Amplifiers [1B3-250 & 1B3-125] 10
 - -250 or 125 Watt amplifiers
 - broad frequency response and low distortion
 - -thermal and electronic protection

Amplifier Terminal Panel [ATP] 11

- supports two audio power amplifiers
- -charges and supervises up 40 AH batteries
- standard 19 inch rack mounting
- Terminal Panel Interface Module [3-ATPINT]
- -supports connection to EST3 Zoned Amplifiers
- Supported by System Definition Utility 13

 fast rules based programming
- Part of an end-to-end 520 Hz signaling solution 14
 - -UL approved for use in sleeping rooms

Uses the 3-ASU & 3-ASU/FT Audio Source Units

- site-recordable or downloadable messages
- live paging
- hierarchical operation of eight distinct digital audio channels

Uses the ZA20 amplifier as a source 16

- Class A or B connection
- Supports Multiple PreAmps
- Optional Standby PreAmps
- -25 Vrms or 70 Vrms interface
- drives multiple 3-ATPINTs in same rack

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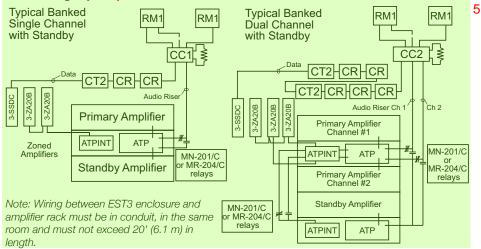
Application 1

Life Safety Audio provides Emergency Response Personnel with a means to control build-2 ing evacuation using voice instructions.

Banked Amplifiers provide EST3 with economy audio configurations for Single and some Dual channel applications.

Typical Configuration 3

Block Wiring Layout 4



Typical System Components 6

Data Sheets are available for the following components. 7

0.4011/57	A 0 11	_
	Audio Source Unit with Fire Phone	8
3-ASU	Audio Source Unit	
3-ATPINT	Audio Terminal Panel Interface	
ATP	Audio Terminal Panel	
ATP-220	Audio Terminal Panel 220 Vac	
1B3-250	250 Watt Power Amplifier	
1B3-125	125 Watt Power Amplifier	
SIGA-CT1	Single Circuit Input Module	
SIGA-CT2	Dual Circuit Input Module	
SIGA-RM1	Riser Monitor Module	
SIGA-CR	Control Relay	
SIGA-MP1	Module Mounting Plate, eight spaces	
SIGA-MP2	Module Mounting Plate, four spaces	
ARM-8	Relay Module /w one relay, space for eight total	
MR-201/C	Relay for ARM-8 (single DPDT)	
MR-204/C	Relay for ARM-8 (four-position DPDT)	
RKU-42	Standard 19 inch Rack Mounting Cabinet, 42 inch	
RKU-61	Standard 19 inch Rack Mounting Cabinet, 61.25 inch	
RKU-70	Standard 19 inch Rack Mounting Cabinet, 70 inch	
RKU-77	Standard 19 inch Rack Mounting Cabinet, 77 inch	
VP-1	Vented Panel, 1.75 inch	
VP-3	Vented Panel, 3.5 inch	
BP-1	Blank Panel, 1.75 inch	
BP-2	Blank Panel, 3.5 inch	
BP-3	Blank Panel, 5.25 inch	
MFC	Module Fire Cabinet	