EMAC-8020
Automatic Amplifier Changeover

Product Descriptions

EMAC-8020 is a 6-duty/1-standby amplifier changeover unit. In operation, a maximum of six units of duty amplifiers, plus one standby amplifier are connected to its switching networks. This device uses state of the art technology, the ADSDT analyzer (analog to digital signal down time) to detect sound failures on these amplifiers.

Therefore, no Pilot tone (20kHz) is required and this eliminates amplifier overheat cause by high level pilot tone. When sound failure is detected in any of the duty amplifiers, the standby unit will automatically take over the operation. If more than one duty amplifiers failes, standby will be given to the highest priority duty amplifier.

There is provision for manual overriding to allow user to select backup in any order that is required. The system can be easily expanded to 24-duty/1-standby by cascading four units of EMAC-8020 via the built-in RJ-45 digital ports.
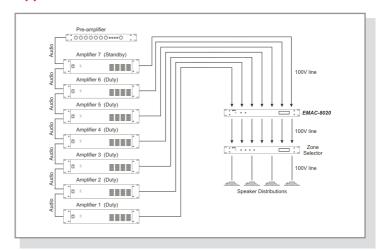
Technical Specifications

Power Requirement	24V DC
Power Consumption	100mA (Standby)
Amplifier Inputs	6 duty amplifiers & 1 standby Amplifier
Max Load per Channel	5A at 100V Line
Cascade	4 Units of EMAC-8020 (24 duty & 1 standby)
Detection Time	1 to 20 seconds (8 seconds by default)
Alert	Buzzer with mute function
Display	2x16 characters LCD to show device status, messages & signal level
Dimensions (WxHxD)	483mm x 45mm x 224mm (1U)
Weight	1.2 kg

Features

- For 6 duty amplifiers and 1 standby amplifier
- Expandable up to 24 units duty amplifiers with 1 unit standby amplifier (4 units of EMAC-8020)
- The highest priority will be given to the 1st channel of the 1st unit EMAC-8020
- Built in microchip controller
- Built in 2x16 characters LCD to show device status, messages & signal level
- Selectable Auto or Manual mode
- Signal detection to disable the channel which is not in use
- Detection time can be set from 1 to 20 seconds
- No Pilot Tone required for signal detection
- Buzzer warning when amplifier failure detected

Application Schematic

rear view