8 Channel Amplifier Fault Changeover with Speaker Line Surveillance
ACS-800

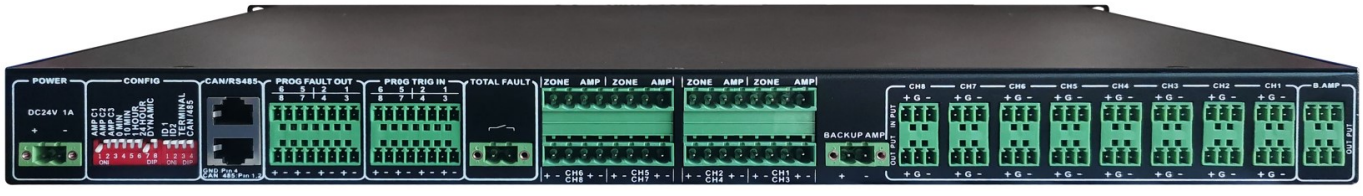
Description:

The 8 channel amplifier fault auto-changeover with speaker line impedance surveillance is an integrated controller integrates the amplifier fault changeover with the speaker line surveillance into one 19” 1U unit. The amplifier fault auto changeover will automatically switch into standby amplifier once there is anyone of the 8 main amplifiers failure. The switching time is within 1 second. The speaker line impedance supervision enables to supervise the speaker line open circuit, short circuit and impedance fluctuation. Each zone detection time is within 2 seconds, The amplifier fault and speaker line fault will be reminded by front panel visualized indicator, buzzer and fault contact or RS485 contact to third party system. The amplifier fault changeover and speaker line surveillance unit is design with full visual indication. There are 8 amplifiers working status indicators, green of normal, yellow of standby and red of fault and distinguished of non-used. There are 8 speaker lines monitoring status indicators, green of normal, yellow of standby and red of fault and distinguished of non-used. There are 8 line inputs from audio sources and 8 line outputs to main amplifiers, 8 100V inputs from main amplifiers and 8 zone 100V outputs to speakers. One total fault output, one RS485 output to inter-work with third party system. Dipswitch to enable or disable the monitoring. Various supervision period selection through rear panel dipswitch. One calibrate button on front panel to initialize or calibrate each amplifier and speaker line setting. Speaker line impedance surveillance is of10% fluctuation. Expandable from 8 zones to max 192 zones. 24V DC operation system.

Feature:

- 8 Channel amplifier fault changeover with speaker line surveillance
- 19” rack mount design in 1U height
- One standby amplifier to backup 1 to 8 main amplifiers within 1 second
- 8 speaker line supervision for open circuit, short circuit and impedance fluctuation
- Each speaker zone detection time within 2 seconds
- The amplifier and speaker line fault will be reminded by indicator, buzzer, fault out and RS485 out
- 8 amplifier indicator, standby amplifier indicator and 8 speaker line indicator
- With calibrate button on front panel to initialize or calibrate each amplifier and speaker line setting
- 8 line inputs from audio sources and 8 line outputs to main amplifiers
- 8 100V inputs from main amplifiers and 8 zone 100V outputs to speakers
- Dipswitch for 8 zone enable or disable the monitoring
- Various supervision period selection through rear panel dipswitch
- 10% speaker impedance surveillance
- Expandable from 8 zones to max 192 zones
- 24V DC operation system

Rear Panel:



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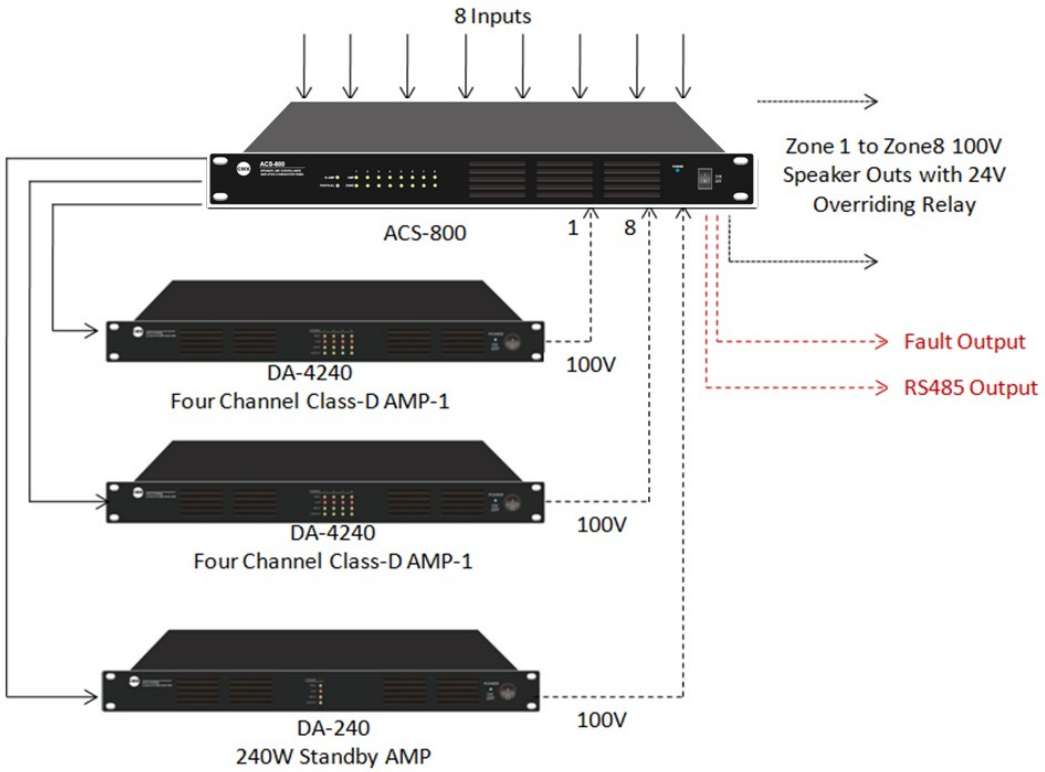
Specification:

Model	ACS-800
Description	8 Channel Amplifier Fault Changeover with Speaker Line Surveillance
Channel	8 Channels
Connector	Eight balanced line inputs from audio sources by phoenix connector Eight balanced line outputs to main amplifier by phoenix connector Eight 100V inputs from main amplifiers by phoenix connector Eight zone 100V outputs to speakers by phoenix connector One total fault contact output by phoenix connector & One RS485 output by RJ45 One line input and line output for backup amplifier by phoenix connector One 100V input from backup amplifier by phoenix connector
Configuration	Auto or manual monitoring dipswitch; Enable or disabled 8 zone monitoring dipswitch Expandable to 192 zones ID dipswitch; 10% monitoring speaker line fluctuation
Input Sensitivity/Impedance	1V, 10K Ohm
Pilot Tone Frequency	20 KHz (±5%)
Detection Line	50V/70V/100V Speaker line
Detection Level	50V rms min
Amplifier Detection Time	< 1 Second
Speaker Line Detection Time	< 2 Seconds per speaker zone
Changeover Time	< 1 Second
Failure Detection Time	5-15 Seconds
Failure Reset Time	20 Seconds Max.
Zone Loading Capacity	500W /100V Line Max.
Max Loading Current	8A
Measurement Sensitivity	±10% of Speaker line impedance
Power Supply	24V DC by phoenix connector Max. 2A
Dimension	484x420x44 mm
Weight	3.2kg



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