

8 Channel Amplifier Changeover with Speaker Line Supervision



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" 2U unit. The amplifier fault auto changeover will automatically switch into standby amplifier once there is anyone of the 8 amplifiers in case of fault. 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 two RS485 interface to third party system.

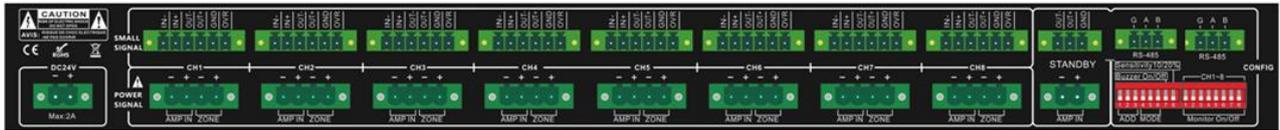
The amplifier fault changeover and speaker line surveillance unit is design with full visual indication. There are 8 amplifier working status indicators, green of normal, yellow of standby and red of fault and distinguished of non-used. There are 8 speaker line monitoring status indicators, green of normal, yellow of standby and red of fault and distinguished of non-used.

Features:

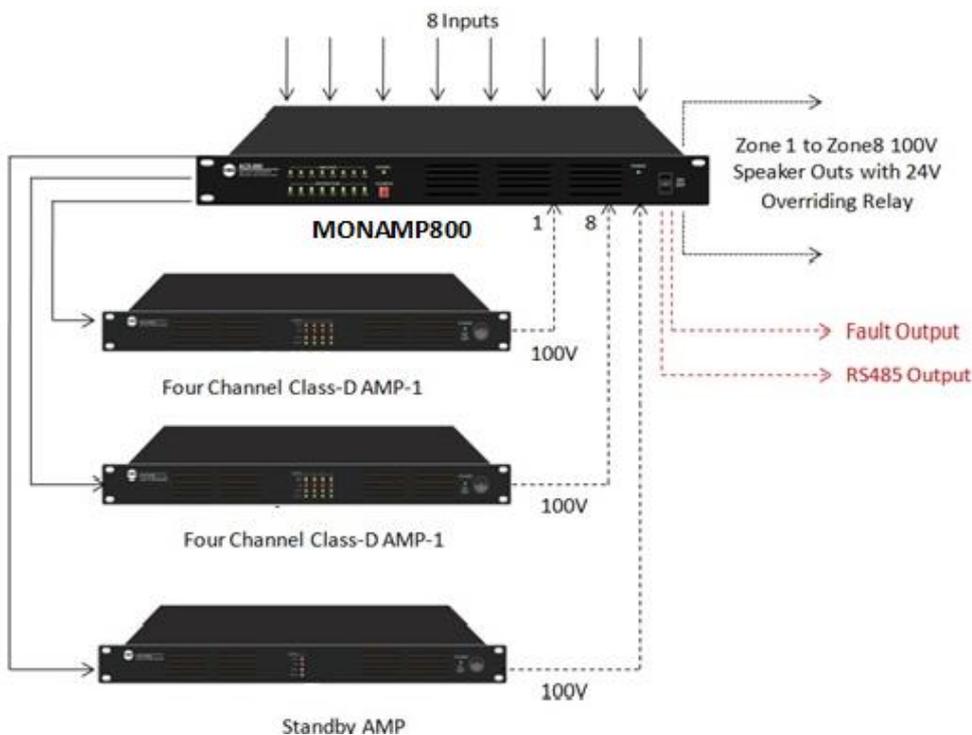
- 8 Channel amplifier fault changeover with speaker line surveillance
- 19" rack mount design in 2U height
- One standby amplifier to backup 8 amplifier within 1 second
- 8 speaker line supervision for open circuit, short circuit and impedance fluctuation
- Each speaker zone detection time within 2 seconds
- 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
- With 8 balanced line inputs and 8 balanced line outputs with 24V overriding relay
- With 8 amplifier 100V inputs and 8 zone 100V outputs
- Dipswitch for 8 zone enable or disable the monitoring
- Auto or manual two different monitoring options

- 10% and 20% two speaker impedance monitoring options
- Expandable from 8 zones to max 192 zones
- Two RS485 interface to third party system
- 24V DC operation system

Rear Panel:



Connection Diagram:



Specification:

Model	MONAMP800
Description	8 Channel Amplifier Fault Changeover with Speaker Line Surveillance
Channel	8 Channels
Connector	Eight balanced line inputs by phoenix connector Eight balanced line outputs with 24V relay by phoenix connector Eight Amplifier 100V inputs by phoenix connector Eight Speaker 100V outputs by phoenix connector Two RS485 interfaces by phoenix connector
Configuration	Auto or manual monitoring dipswitch; Enable or disabled 8 zone monitoring dipswitch Expandable to 192 zones ID dipswitch; 10% or 20% 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	DC24V by phoenix connector Max. 2A
Dimension	482(W)x420(D)x44(H) mm
Weight	3.2kg

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