DA8001

Amplifier & Speaker Line Detector
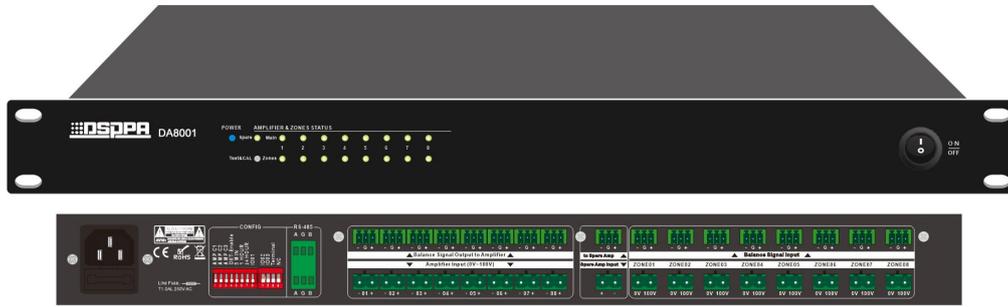
Description

This device is an intelligent device that integrates power amplifier detection, automatic backup, and partition monitoring. It provides third-party programmable connection and SDK protocol interface to realize real-time status monitoring. It is an ideal choice for intelligent broadcasting systems.

Features

- 1U aluminum alloy panel, highly integrated and modular design.
- Amplifier changeover and speaker line supervision 2 in 1.
- The main power amplifier configuration is flexible, which can realize 8 mains and 1 backup, 7 mains and 1 backup.... 1 main and 1 backup.
- Power amplifier status detection, real-time feedback, automatic backup.
- Speaker line supervision supports manual or automatic detection(open circuit, short circuit, ground).
- Integrated bus RS485 communication interface, which can realize remote automatic control.

Specifications

Model	DA8001
Single zone control power	800W rms max /100V 8A
Amplifier fault detection	8 main power amplifiers + 1 backup power amplifier
Speaker zone failure detection	8 zones
Detection time	No detection, 5 minutes, 1 hour, 24 hours.
Measurement accuracy	±10% Line Impedance
Power supply	AC 90~264V 0.1A
Fuse	T1A-250V
Weight	4.3KG
Size	483×44×368 mm

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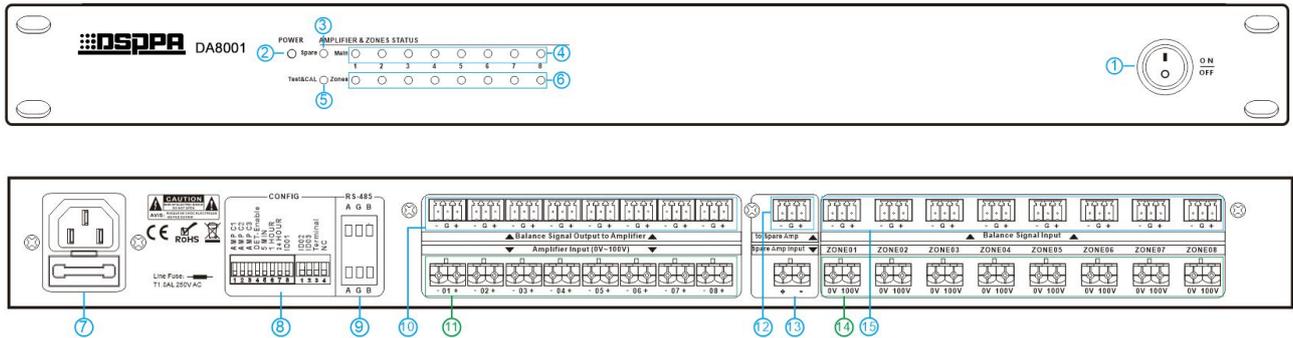
① —— **Power switch**

② —— **Power indicator**
◆ blue —— Indicates that the device is powered properly;
◆ Off —— Indicates a device power failure.

③ —— **Spare amplifier status indicator**
◆ yellow——Indicates a backup amplifier failure;
◆ green——means normal.

④ —— **Main amplifier channel status indicator**
◆ yellow——Indicates that the main power amplifier is faulty;
◆ red——Indicates that the main power amplifier is converted to a backup power amplifier;
◆ green——means normal;
◆ Off——Indicates that the channel is not configured.

⑤ —— **Speaker line impedance calibration**. Long press and hold for 5 seconds then release to do speaker line impedance calibration，short press and release for 1~3 seconds to manually start impedance detection at once.
Instruction:
1. Please check and correct at least once when the speaker line impedance changes (impedance change means that the speaker is increased or decreased).
2. During calibration, if the corresponding speaker line is not connected　any speaker, no matter whether the user start the detection by manual way or automatically , system will ignore it and will not do detection. This speaker zone led will be off, system will only do detection until you connect the speaker to this zone and do calibration again.

⑥ —— **Speaker Loop Status Indicator**
◆ yellow——indicate failure;
◆ red——Indicates grounding or short circuit;
◆ green——means normal;
◆ Off——Indicates that the current channel is not configured or that no speaker is detected when the loop is calibrated.

⑦ —— **AC power input(90V~264V)**
⑧ —— **Device configuration switch**

➢ The device channel number configuration switch is configured by the "AMP C1~C3" bits ('H' means main amplifier, 'S' means backup amplifier), please see the following setting photos:

H-1 S-1 | H-2 S-1 | H-3 S-1 | H-4 S-1 | H-5 S-1 | H-6 S-1 | H-7 S-1 | H-7 S-1
AMP C1 AMP C2 AMP C3
1 2 3
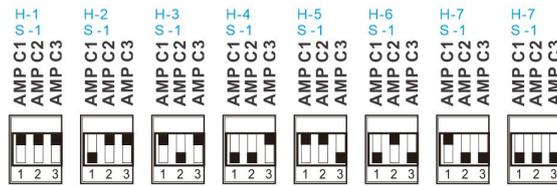
➢ The device automatic detection time configuration is configured by the "DET-Enable, 5 MIN, 1 HOUR, 24 HOUR" Dipswitch ('0 MIN' is the enable configuration), please see the following setting photos:

disable | 5 minute | 1 hour | 24 hour
0 MIN 5 MIN 1 HOUR 24 HOUR
4 5 6 7
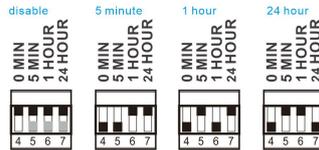
➢ Device link ID address is configured by "ID1~ID3" Dip switch, please see the below photos:

0x81 | 0x82 | 0x83 | 0x84 | 0x85 | 0x86 | 0x87 | 0x88
ID01 ID02 ID03
8 1 2

➢ "Terminal" is the RS-485 end of terminal resistance, which is   config according to the site conditions: "ON" enables, "OFF" disables.

➢ "NC" null.

⑨ —— Device link RS-485 interface

⑩ —— Main power amplifier 01~08 balanced signal output interface (connect to small signal input interface of external power amplifier)

⑪ ——Main power amplifier 01~08 signal input interface   (connect to power signal output interface of external power amplifier)

⑫ —— Spare power amplifier small signal output interface (connect to small signal input interface of external power amplifier)

⑬ —— Power signal input interface of standby power amplifier (connect to power signal output interface of external power amplifier)

⑭ —— Zone 01~08 output interface (external speaker)

⑮ —— Audio signal 01~08 input interface