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Intercom for Sound, Lighting and Production Professionals



**PS301**  
Intercom Power Supply  
with  
Program Audio Input



1. The PS301 is a 3-circuit Power Supply with a unique hybrid configuration. Microprocessors operate all the switching, routing, and supervision functions while the audio paths and the core power supply remain analog. The result is a station with unrivaled flexibility, muscular reliability, and clean, smooth audio.

2. The PS301, as in all the 300 series master stations and power supplies, has a large toroidal transformer which gives off virtually no stray-field radiation to interfere with other devices with which it shares rack space.

3. Those power supply components which create heat are mounted on a massive heat sink, and, when necessary (rarely) get extra cooling from a thermally regulated cooling fan.

4. Each of the 3 PS301 circuits is independent of the others, except for sharing the toroidal transformer and its peripherals. Therefore, a problem on one circuit does not affect the others. When a circuit problem occurs, and is eliminated, the PS301 resumes normal operation without re-booting.

5. The monitoring and control functions include automatic adjustment of the termination impedance when the circuits are combined, adjusting to brown-outs or sudden drops in line voltage, monitoring the temperature of the heat sink and switching the cooling fan on when required, and reporting the status of each circuit to LED indicators on the front panel:

The top, **green** LED reports that 24VDC is being delivered to the system.

The lower **3 red** LEDs flash when that circuit is experiencing an overload and stay on constantly when the circuit has been shorted and therefore shut down until the problem is solved.

The microprocessor will also adjust the percentage of the 2.4A (continuous) current that is allocated to each circuit, depending upon the load on each.

6. The transformer has primary windings for both 120VAC and 240VAC (50/60 Hz) and allows wide deviation from those voltages without any effect on performance. At as low as 100VAC, the secondary voltage will remain at 24VDC while the available current will be slightly reduced from 2.4A continuous to 2.0A continuous. The voltage and fuse are changed on the rear panel.

7. The components and microprocessor which monitor and adjust the power supply's performance are separately mounted on their own circuit board, as far as possible from any heat source.

8. The PS301 has a rear panel input for program audio. The input may be set for line level or mic level signals. Program audio may be directed to any or all of the three circuits. A front panel switch is provided for each. The program audio level may be preset for each circuit separately and monitored visually via an LED display.

9. The PS301 can be used with any unbalanced 200Ω party-line intercom components.

**Specifications: (subject to change without notice)**

Current draw (at 120VAC): 0.14A (no load), 1.05A @ 2.4A DC out

Power output: 24 volts DC regulated @ 2.4A continuous

Line termination: DC: 5KΩ, 50 Hz-20 KHz: 200Ω

Aux. input: Mic level: (-44dBm) 48KΩ, Line level (-24dBm): 1KΩ

Size (excluding ears) : 17" width x 9.5" depth x 1.75" height (432 x 241 x 44.5 mm)

Weight: 9.8lbs. 4.5Kg

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