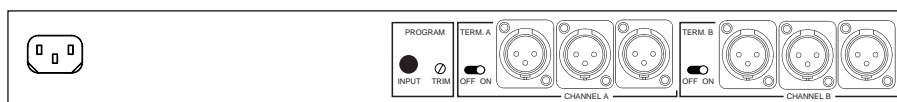




## FEATURES

- Provides up to 2 amps peak in only IRU
- Supports up to 40 headset stations or 15 speaker stations
- Exclusive IFOS Intelligent Fault/Overload Sensing for system reset
- Front panel intercom line jack selectable for either channel
- A+B Link switch for single channel operation
- Balanced program input with global and individual channel controls
- Universal power supply accepts 90-240 VAC
- Overload/fault indicator for each channel
- Built-in test tone generator for set up and diagnostics
- Switchable terminations for each channel
- Works in parallel with other power supplies and main stations
- UL Listed and CE certified



PS-232 Back Panel

## DESCRIPTION

The PS-232 is the most advanced and innovative party-line power supply in Clear-Com's history.

Featuring a custom-programmed microprocessor to control the power supply, the PS-232 runs cooler and recovers more quickly under a full load than anything else on the market. The 1-RU PS-232 can supply up to 2 amps peak at 30 volts DC to two channels. This is sufficient to power up to 40 beltpacks or 15 speaker stations, even under the most demanding conditions. Either channel is capable of supplying up to 2 amps. The full current capacity may be divided between the two channels.

Clear-Com's advanced fail-safe design can sense the difference between a short and an overload. Should a problem occur, each channel's DC overload/fault LED identifies the power supply's response to the problem: solid means an overload is sensed, but still powered; blinking means power has been temporarily cut off to protect the power supply. If both channels are operating and one channel has a fault, the other channel will continue to operate normally. Power is restored to the shorted or overloaded channel in a little as .5 seconds. With our exclusive Intelligent Fault/Overload Sensing (IFOS), the PS-232 will dynamically increase this time period before attempting another reset until the fault or overload is corrected. This function significantly extends component life. And there is no need to disconnect stations for the power supply to reset.

In addition to system power, each channel offers a switchable termination and three parallel XLR connectors, as well as an adjustable program feed. Connection to remote stations is made with standard 2-conductor shielded mic cable. Program signal is fed into the system through a rear-panel, balanced TRS connector next to a global input-level trim control. Individual on/off and program-send levels for each channel are available on the front panel.

The unit also offers a convenient front panel intercom line jack, switchable to either channel. This can be quite handy for troubleshooting or simply a time saver when quick access to either intercom line is needed.

Another feature unique to the PS-232 is a built-in test tone generator. A 440Hz tone is available on either or both channels and is indispensable for system diagnostics and set-up. Simply flip a switch, set a level, and go.

**PLpro**<sup>®</sup>

PROFESSIONAL INTERCOM PRODUCTS

by Clear-Com

## SPECIFICATIONS

### POWER SUPPLY

Type: Switching, with post filters and overload reset circuitry  
 Output Voltage: 30 volts DC  
 Output Current:  
   Channel A; 1 amp continuous, 2 amps peak  
   Channel B; 1 amp continuous, 2 amps peak  
   Total; 2 amps peak  
 Short Circuit Reset Time: 0.5 to 20 sec.  
   depending upon recent overload activity  
 Hum & Noise: < -70 dBV  
 Station Capacity: 50 headset stations or 15 speaker stations, distributed over both channels

### PROGRAM AMPLIFIER

(Transformerless, balanced differential input)  
 Input impedance: > 100 k $\Omega$   
 Frequency Response: 150 Hz -18 kHz  $\pm$  2 dB  
 Line Level Input: -20 dBV

### SYSTEM SPECIFICATIONS

Termination Impedance: 200  $\Omega$ , switchable  
 Intercom Line Length:  
 5,000 ft. maximum (single channel)  
 500 ft. for crosstalk < -50 dB  
   (with multi-channel stations)  
 System Frequency Response: 150 Hz -18 kHz  $\pm$  2 dB

### REAR PANEL CONNECTORS

Intercom: (6) XLR-3M (3 per channel)  
 Program: (1) 1/4" TRS  
 AC Power: (1) IEC 320 connector

### REAR PANEL CONTROLS

(2) Termination on/off; (1) program input level

### FRONT PANEL CONNECTOR

Intercom: (1) XLR-3M (selectable channel A or B)

### FRONT PANEL CONTROLS & INDICATORS

(1) Intercom Select switch; (2) Program On-Off switches; (2) Program Send Level controls;  
 (1) Test Tone switch; (1) A+B Link switch;  
 (1) Power On switch; (2) "Overload" lights;  
 (1) "A+B Link" light; (1) Power "On" light

### POWER REQUIREMENTS

90 - 240 VAC, 50 - 60 Hz, 60 VA

### ENVIRONMENTAL

32 - 122 $^{\circ}$  F (0 - 50 $^{\circ}$  C)

### DIMENSIONS

19" W x 1.75" H x 5.25" D  
 (483 mm x 44 mm x 133 mm)

### WEIGHT

4.5 lbs. (2.05 kg)

*Specifications are subject to change without notice.*

Like all current Clear-Com Party-Line power supplies, two or more units can be connected in parallel for increased system capacity or backup redundancy. Multiple units will automatically synchronize their response to power faults and overloads. The PS-232 can also operate as a single-channel unit by using the front-panel A+B link switch. Unitized chassis construction of heavy-gauge aluminum and an extra thick front panel create a rugged, durable enclosure—able to withstand the rigors of portable use.

The PS-232 is UL listed and CE certified. Its universal switching power supply will accept input voltages between 90 and 240 VAC, for trouble-free use anywhere.

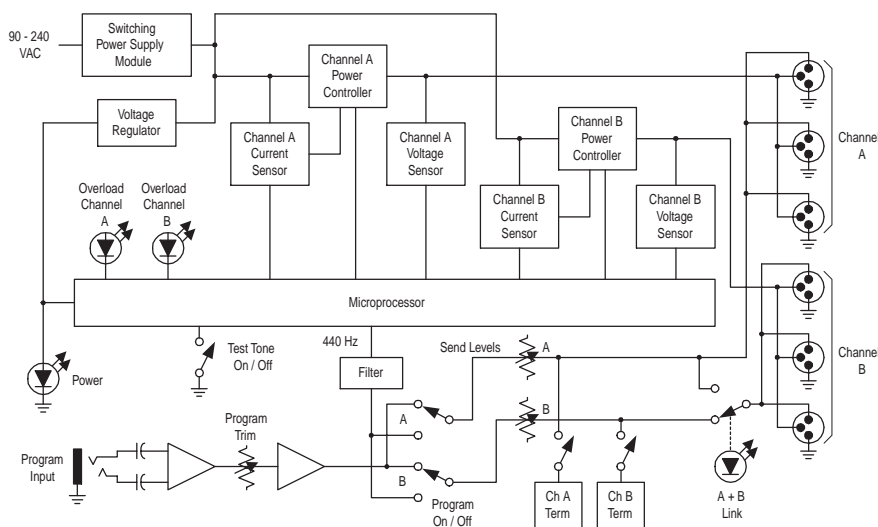
## A & E SPECIFICATIONS

The EIA standard 1-RU rack-mountable two-channel intercom power supply shall have rear-panel connections for two intercom channels, each with three male 3-pin XLR connectors and a termination switch. The rear panel shall also have a TRS balanced line-level program input, program-level trim pot and IEC type AC input connector. The front panel shall have program send level, program On/Off switch, and an overload LED for each channel. It shall also have a power On/Off switch, power On LED, A+B link On/Off switch, A+B link on LED, test tone On switch, male 3-pin XLR intercom line connector, and an A/B channel-select switch for that connector. The power supply shall be capable of supplying up to 2 amps to any one channel with a total unit maximum current capacity of 2 amps peak at 30 VDC.

The built-in test-tone generator shall produce a steady tone of 440 Hz,  $\pm$  8%. The unit's power supply shall work with any AC wall voltage between 90 and 240 VAC, 50 or 60 Hz. Two or more PS-232 units wired together shall automatically synchronize any protection circuit and subsequent system reset response to circuit shorts or overloads. The unit's fault/overload restore timing will be based upon thermal modeling of the power supply circuitry and will adjust the power-restore times appropriately.

The dimensions shall be 19" W x 5.25" D x 1.75" H (483mm x 133mm x 44mm); weight shall be 4.5 lbs. (2.05kg). The power supply shall be known as the Clear-Com PS-232.

## PS-232 BLOCK DIAGRAM



### Clear-Com Intercom Systems:

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