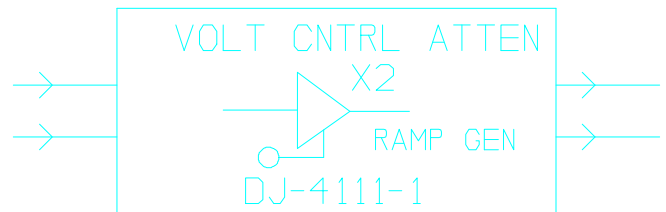


### DESCRIPTION

The DJ-4111-1 provides two channels of independent or ganged remote level control. The solid-state VCA s utilize studio grade low noise/low distortion circuitry and are operated by DC control from nonvolatile up/down ramp control circuits or from a remote 10kΩ linear potentiometer. The ramp control circuit allows multi-location control from an unlimited number of momentary contact up/down switches. The DJ-4111-1 may be operated with model DJ-4137 Remote Display/Control to provide visual LED indication of level for up to 10 remote locations.

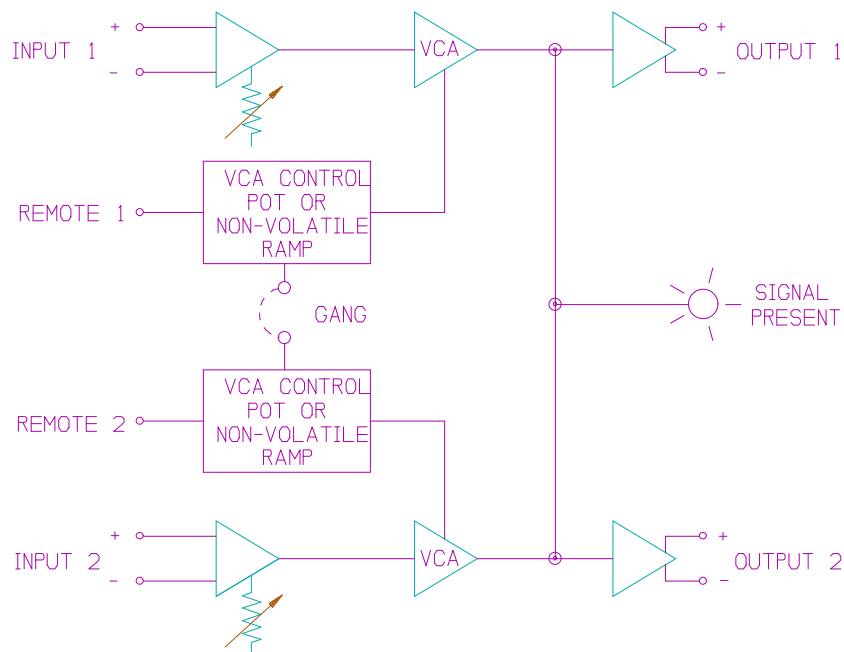
### DESIGN SYMBOL



### FEATURES

- Two independent channels
- Ganged level control of multiple channels
- Active balanced inputs and outputs
- Low noise/low distortion VCA circuitry
- Continuous control range of 0 to -50dB and off
- Multi-location up/down ramp control
- Nonvolatile level memory
- Field Programmable ramp rate
- Field programmable restriction of control range
- Supports DJ-4137 Remote Display/Control

### FUNCTIONAL DIAGRAM



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## OPERATION

Input gain of each channel is set by a potentiometer on the front edge of the module. The output levels are adjusted by paralleled, momentary, dry-contact ramp control switches. Level settings are preserved during periods of power off. Alternately, the ramp circuits for either channel may be bypassed for control by a remote 10k $\Omega$  linear potentiometer. Under potentiometer control, a channel may be turned off (-100dBV) by turning the remote control knob fully counterclockwise, or by opening a dry contact switch in the remote potentiometer wiper leg. Under up/down ramp control, a channel may be jumper selected for channel off (-100dBV) whenever the ramp reaches the lowest point of a preselected control range. Both the remote up/down ramp generator and remote potentiometer control methods operate over a maximum 50dB control range and can be field modified for restricted range. Channels are normally set to operate independently, but can be field programmed so that remote control signals to one channel will cause the output levels of both channels to track simultaneously.

## SPECIFICATIONS

LINE INPUT .....	Standard <b>SYSTEM 41</b> active balanced
Impedance .....	82k $\Omega$ balanced, 41k $\Omega$ unbalanced
Maximum Input .....	+ 19dBV
LINE OUTPUT .....	Standard <b>SYSTEM 41</b> active balanced
Impedance .....	200 $\Omega$ , for 600 $\Omega$ or greater load
Maximum Output .....	+ 19dBV, unloaded
GAIN .....	0dB nominal, + 10dB maximum, field alterable
REMOTE ATTENUATION (Control Range) .....	0 to -50dB then off (-100dBV), field alterable to restrict control range
FREQUENCY RESPONSE* .....	+ 0dB, -0.5dB
THD*,** .....	Less than 0.02% @ 0dBV output
EQUIVALENT INPUT NOISE*,** .....	Less than -90dBV
REMOTE CONTROL ....	Momentary (up/down) dry contacts, or DJ-4137 Remote Display/Control Potentiometer Option .....
.....	10k $\Omega$ pot with dry contact (OFF switch) in wiper leg
CURRENT CONSUMPTION .....	100mA, 8mA for each DJ-4137
MODULE SPACE .....	1 unit, 1.20 inches

\* Measured over a 20 Hz to 20 kHz bandwidth

\*\* Measured at nominal gain setting

## ARCHITECT'S SPECIFICATIONS

The remote level control/VCA shall provide two channels with active balanced inputs and outputs. Each channel shall provide a continuous remote control range of 50dB but shall be alterable to restrict the control range. A non-volatile ramp memory circuit for each channel shall be operable from one or an unlimited number of remote locations. Each remote location shall require a pair of momentary dry contacts. Control signals shall be provided to interface with the IRP model DJ-4137 Remote Display/Control. Ramp rate and control range restrictions shall be independently alterable for each channel. Alternately, remote control of either channel shall be by a single 10k $\Omega$  potentiometer. Nominal channel gain shall be alterable by a gain programming resistor. Input gain shall be set by an input level potentiometer. THD shall be less than 0.02% at 0dBV. Equivalent input noise shall be -90dBV or better, 20 Hz to 20 kHz. The output signal shall be monitored by a signal present LED. The remote level control/VCA shall mount in and be powered by the IRP model DJ-4100, DJ-4101, or DJ-4150 mainframe. The remote level control/VCA shall be the IRP model DJ-4111-1 Remote Level Control/VCA with Multi-Location Ramp Control.

## ORDERING INFORMATION

Specify: Remote Level Control with Ramp/VCA DJ-4111-1