

# MODEL 6100

# CD LEVELER /PAGING STATION

## FEATURES

- Automatically Compensates For Different Input Levels.
- Built-In Microphone Preamp With Ducker Override of CDs.



- Two Separate CD Stereo Inputs.
- Built-In Remote Volume Control Circuit.
- One CD Only Out, One CD/Page Output.
- Individual Adjustable Gain of Each Input & Outputs.

[www.protechaudio.com](http://www.protechaudio.com)

CDs have become very popular for background music material in a variety of commercial installations. A common problem encountered with CDs is that the level of the recordings varies greatly from one recording company to another. This has required constant adjustment of the background music system, in order to keep the system at a comfortable listening level. The Model 6100 is designed to eliminate this problem.

The Model 6100 CD Leveler and Paging Station is designed to provide automatic level control on CD based program material, and microphone paging override of the CD program material. One output has CD material only, and the other output has paging override of the CD material. Both outputs have remote volume control capability.

The CD Leveler section of the Model 6100 accepts stereo program material from two separate CD players, with CD input number one being the default. Any time program material is presented to CD input 1, the Model 6100 automatically plays that program, even if CD input 2 has program material present. The stereo inputs are summed to a mono output. Input levels are adjustable.

The automatic level control section averages the program level of material that is present and adjusts the

level up or down, to a factory set window. The actual output level is user adjustable. Once the output level is adjusted, the ALC section adjusts the program material level, to keep it within the window. When no program material is present, the ALC freezes the gain, to eliminate pumping that is normally found with compressor/limiter type units.

The microphone paging section consists of a high quality microphone preamplifier, with phantom power capability, followed by a push-to-talk circuit, and a compressor circuit. The compressor circuit works only on the output of the microphone preamplifier, and does not effect the CD ALC circuit. The compressor is factory set to a 2:1 ratio. This circuit optimizes the paging level, and keeps the page within a smaller dynamic range. Loud talkers and soft talkers are heard at a similar level.

A simple closure to ground activates the paging input. The page is directed to one of the two balanced outputs. This allows paging into lounges, while the remainder of a restaurant hears only the background music.

On a Friday or Saturday night, the manager may want a higher paging level, due to larger crowds. The paging output has built-in remote volume control capability, to allow easy adjustment.

For additional information or applications assistance contact: [SALES ENGINEERING](mailto:SALES@PROTECHAUDIO.COM)

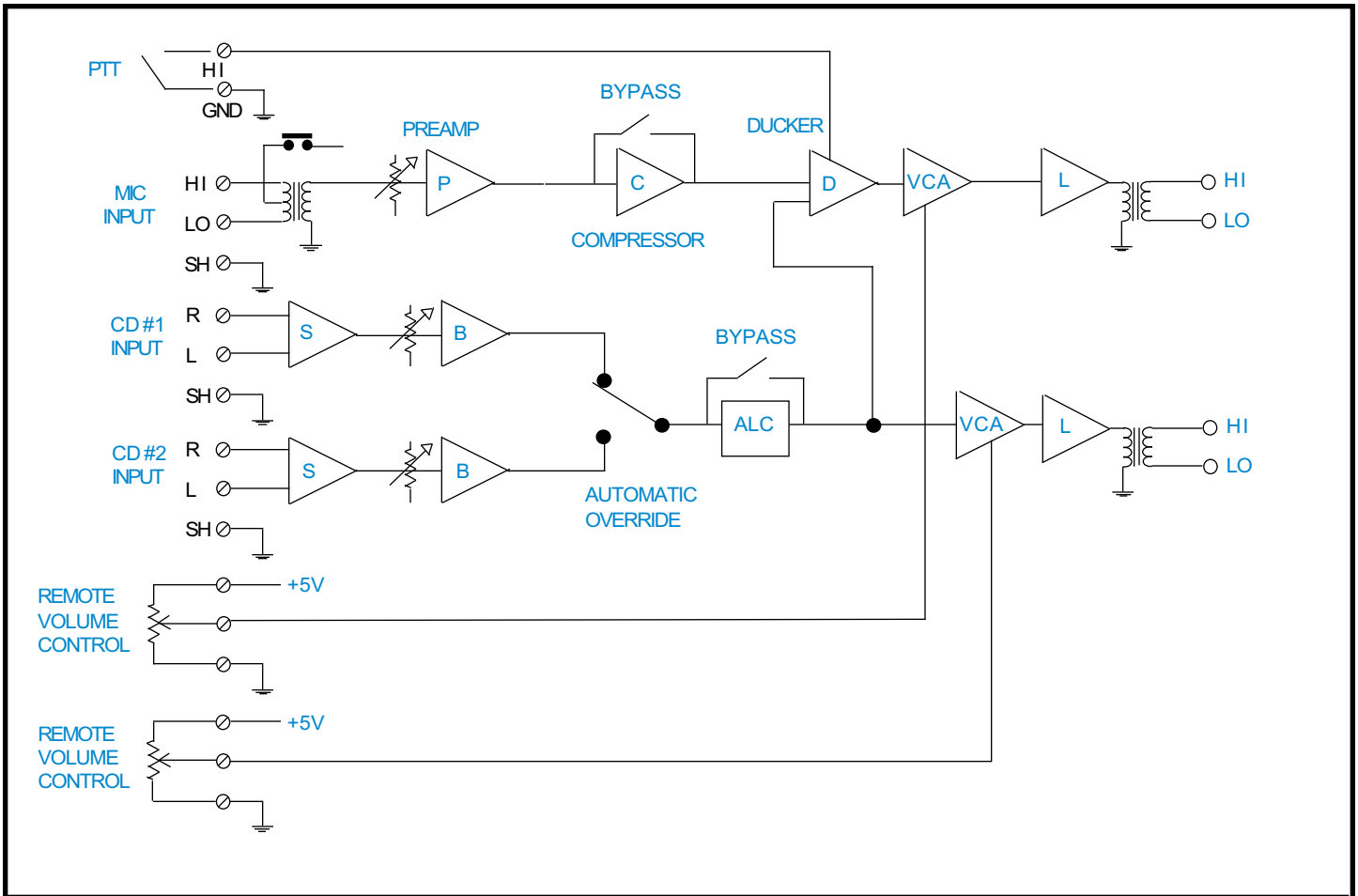
CD LEVELER/PAGING STATION

**PROTECH**®

Engineering Data

1/03

# CD LEVELER & PAGE STATION



## Specifications

GAIN.....	Input 1 = +10dB, Adjustable Input 2 = +10dB, Adjustable Mic = 35-55dB, Adjustable ALC = +10dB, Automatic Output = +10dB, Adjustable
INPUT IMPEDANCE.....	Line = Electronic Balanced Bridging, 15K Mic = Transformer Balanced Bridging, 150 Ohm
MAXIMUM OUTPUT.....	+20dBm
FREQUENCY RESPONSE.....	+0, -1dB, 20Hz To 20KHz
DISTORTION.....	0.1% Maximum @ +15dBm Out, & 15dB of Gain
NOISE.....	-82dB Below +4dBm Out, and 15dB of Gain
POWER REQUIREMENTS.....	117VAC @ 0.5 Amp.
SIZE.....	1.75" x 19" x 10"
OPERATING TEMPERATURE.....	-20 To +75 Degrees C

Specifications Subject to Change Without Notice

## Architect's & Engineer's Specifications

The CD leveler shall be capable of accepting two separate stereo CD inputs, with automatic override of CD input 2. The input signals shall be summed to mono outputs.

The CD leveler shall be capable of automatically adjusting the CD program level, to a maximum of 10dB, up or down. The CD leveler shall allow a window of  $\pm 2$ dB. Any program material outside of this window shall automatically be adjusted to within the window. When no program material is present, the CD leveler shall freeze the gain setting.

The CD leveler shall have built-in microphone paging override of one output. Initiating a page shall automatically mute the background music to output #1. The CD leveler shall contain a factory set compressor circuit to reduce the dynamic range of any pages.

The CD leveler shall contain built-in remote volume control of the combined page/CD output.

All input and output levels shall be adjustable from the front panel.

The CD leveler shall have a UL recognized power supply.

The CD Leveler shall be Protech Audio Corporation Model 6100

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