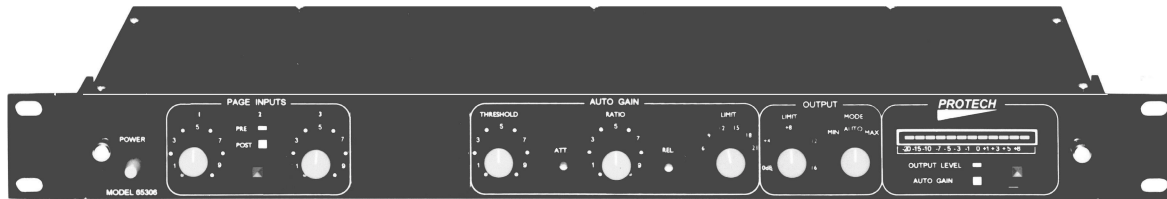


MODEL 65302B

AMBIENT NOISE SENSING AUTOMATIC LEVEL CONTROL

www.protechaudio.com



FEATURES

- Automatically Adjusts Sound System Level To Compensate For Ambient Noise Changes
- Two Adjustable Inputs With Priority Override.
- Gain Compensation Selectable For BGM & Page, Or Just Page.
- Output Peak Limiter For Positive Speaker Protection.
- Uses Low Cost Microphone for Sensing.
- Selectable Metering of Output or Gain Functions.
- Min/Auto/Max Switch for Easy Test and Alignment.
- Plug-In Construction Allows Servicing Without Rewiring.

The Protech Audio Model 65302B is designed for use in public address/background music systems, where clarity and volume of announcements is critical. The 65302B is designed to listen to ambient noise, and automatically adjust PA levels to compensate for variations.

The Model 65302B is designed to provide the user with a complete public address input device. The unit consists of three separate sections. The input section allows for 2 separate input signals. Both input levels are individually adjustable, and input 2 has built-in priority override of input 1. The override feature is defeatable when direct mixing is preferred.

The noise-sensing section allows the unit to listen to ambient noise conditions in the public address area, and vary the output level of the Model 65302B, to compensate for variations in noise level.

Controls are provided to allow adjustment of when

the unit starts to add gain (Threshold), at what rate the unit adds gain in relation to changes in ambient noise level (Ratio), how fast the unit adds gain (Attack), maximum amount of added gain (Gain Limit), and how long the gain will be added after the ambient noise level drops (Release).

The output section features an adjustable peak limiter, to prevent overloading of the paging system power amplifiers and speakers, regardless of input levels and gain adjustments.

The unit also incorporates a number of user definable features that allow the user to tailor the performance of the Model 65302B, to fit a wide variety of paging applications.

The construction of the Model 65302B, from the UL recognized power supply, to the plug-in electronic section, to the MIN/AUTO/MAX test and set-up switch, allows the user to rely on the unit for easy set-up, and years of reliable service.

PROTECH AUDIO

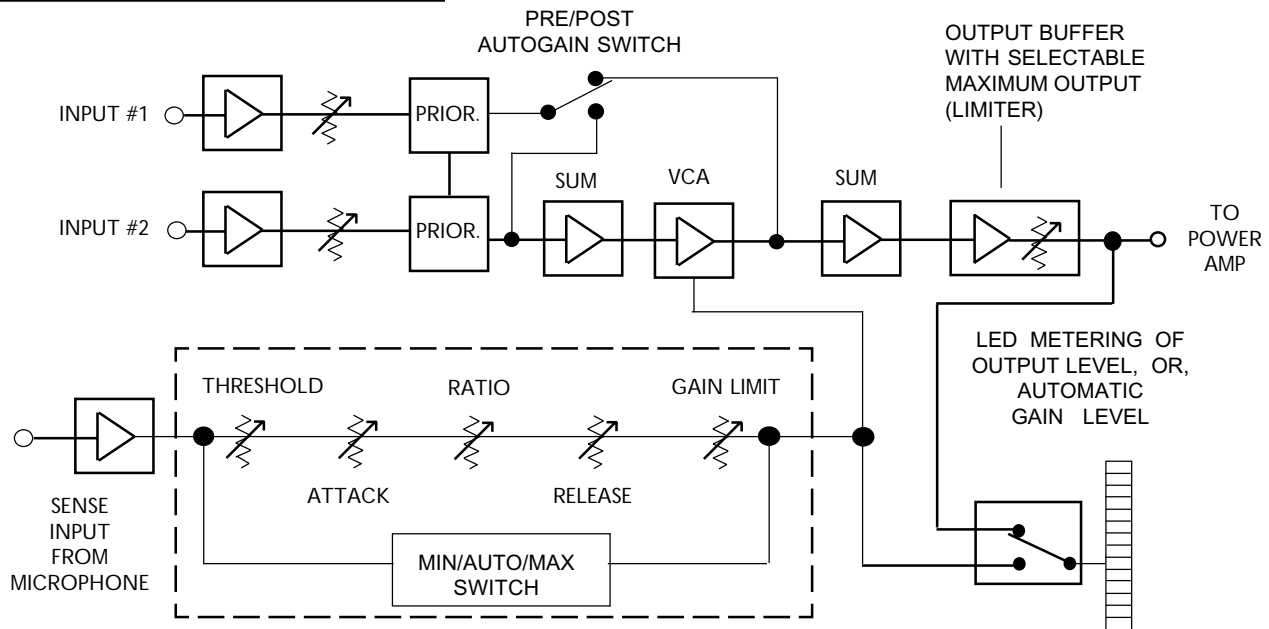
AUTOMATIC LEVEL CONTROL/LIMITER

PROTECH®

Engineering Data

1/06

Block Diagram Model 65302B



ARCHITECT'S & ENGINEER'S SPECIFICATION

The ambient noise sensing automatic level control shall be constructed in an all steel chassis requiring no more than 1.75" of vertical rack space. The ALC shall have a UL recognized power supply. The unit shall be designed to mount in a standard 19" EIA rack.

The ALC shall have provision for 2 line level inputs with separate front panel gain controls. Application of an audio signal to input #2 shall automatically mute input #1. The priority override feature shall be defeatable as defined by the application. Input #1 shall be assignable to pre or post autogain settings.

The ALC shall have Threshold, Ratio, and Gain Limit controls to adjust the ambient noise sensing automatic level control function. The auto gain limit control shall be adjustable in 3dB steps, from 6dBm to +21dBm. The ALC shall have a peak stop auto gain limit control.

The ALC shall have a front panel accessible switch to allow minimum, automatic, and maximum settings, to allow testing of all output operating parameters.

The ambient noise sensing automatic level control shall be PROTECH AUDIO CORPORATION MODEL 65302B.

SPECIFICATIONS, MODEL 65302B

INPUT SECTION

Input Gain, Adjustable.....	Off To 20dB Gain
Threshold, Priority Circuit.....	-25dBv
Mute Attenuation.....	70dB, Min.
Maximum Input Level.....	+18dBv
Input Impedance.....	10K Ohms Nominal

AUTOMATIC GAIN SECTION

Sensing Input Impedance.....	1.1K Ohms Nominal
Threshold Adjustment Range.....	-60dBv To 0dB
Ratio Range.....	1:1 To 4:1
Auto Gain Limit Range.....	6dB To 21dB
Attack Time.....	1 Second To 60 Seconds
Release Time.....	2 Seconds To 60 Seconds

OUTPUT SECTION

Output Limit Range.....	0dBv To +20dBv
Maximum Output Level.....	+20dBv

OVERALL SPECIFICATIONS

Set-up Test Switch.....	Min = Without Auto Gain, Max = Maximum Setting Auto Gain Auto = Standard Operating Mode
Distortion + N.....	0.1% Maximum
Noise.....	84dB Below +4dBv Out
Frequency Response.....	30Hz To 20KHz, ± 0.5 dB
Operating Temperature.....	0 To +70 Degrees C
Power Requirement.....	0.5 Amps/120VAC
Dimensions.....	1.75"H x 19"W x 7"D
Shipping Weight.....	Approx. 10Lbs.

PROTECH®

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