AMBIENT NOISE SENSOR SYSTEM

ANS501
with Sensor Microphone

Bogen's **Ambient Noise Sensor System** electronically adjusts the level of a page or background music in applications where ambient noise levels are continuously changing. The ANS501 ensures that page announcements or background music are intelligible even during periods of high ambient noise levels. The system includes a sensor microphone module (ANS500M) that monitors the ambient noise level, and a 12V DC power supply.

Product Features:

- Automatically adjusts paging level as ambient noise levels rise and fall
- Balanced and unbalanced input and output
- AUX inputs bypass gain control feature
- Unbalanced stereo AUX inputs *(summed mono)*
- Supports up to 4 sensor microphones *(one ANS500M included)* wired in parallel for large areas
- Sensor microphones can be located up to 2,000 feet from control unit
- Only 2 wires needed for connection of sensor microphones
- Microphone module includes an adjustable mounting bracket for precise positioning
- Connects easily between pre-amp and power amp or to amplifier insert jacks
- Sensitivity control and max boost control
- Adjustable ramp speed

Power Requirements	Dimensions	Product Weight
12V DC Power Supply (included)	Control Unit: 5-1/4" W x 3" H x 1-1/4" D	1 lb.
	Sensor Microphone: 2" W x 2-1/8" H x 7/8" D	4 oz.

Music Bypass Input

Ambient noise controllers are a great benefit in applications where ambient noise conditions change significantly. Typically, these controllers raise and lower all the inputs to a sound system. However, there are instances where it may be desirable to keep a certain input from changing in response to ambient noise. A good example of this is a restaurant or lounge situation where background music is supplied at low levels to make the area seem less empty during quiet periods. Normally the background music is simply overpowered by the ambient noise of the crowd as it builds and this is desirable since the background music is of no real importance. It would be undesirable in this situation to have the background music increase in level as the ambient noise increases since the background music would only add to the ambient noise level and annoy the patrons. The ANS501 provides a special AUX input just for this type of application. This input is mixed into the output of the ANS501 after any level changes have been made and will not change with the ambient noise level. All other signals sent to the ANS501's normal input, like paging announcements, will have their level changed in response to changes in ambient noise, but the AUX Input level will remain fixed.

Accessories

ANS500M
Sensor Microphone
(one included w/system)

NIGHT RINGER

NR100

The **NR100** converts any paging system into an after-hours night bell alert system. The NR100 connects to the paging system's amplifier and emits a ringer tone through the paging system's speakers, thus eliminating the need for loud old-fashioned bells positioned throughout a facility. The NR100 is an efficient and easy way to alert security or personnel of incoming calls during non-business hours.

Product Features:

- Responds to 90V ring signals or external contact closures
- Produces dual-frequency electronic ringer tone
- Easily connects to any paging system
- Automatically mutes background music while ringing
- Ringer volume control
- Compact size
- Low current draw
- No maintenance
- FCC Part 68 Registered

Power Requirements	Dimensions	Product Weight
External 24V DC @ 25 mA, power supply *(not included)*	5-1/4" W x 3-1/4" H x 1-1/4" D	1 lb.

Simple Connections

Wiring consists of connecting the night answer port of the telephone system to the ringer inputs. The ring signal can be the actual 90V ring signal or it can be from a contact closure. The output of the NR100 connects to any paging system. If there is background music in the system, that too is fed to the NR100. When the night line rings, the NR100 will suppress the background music and begin to feed the electronic ring tone over the paging system. Background music will not be reapplied until the line stops ringing to ensure that no background music will be heard in between bursts of ring signal.

Accessories

PRS2403
24V DC Power Supply