

Ezi-Listening



Level regulating/ambient noise following module type ANS-1A is designed to receive audio signals from an ambient noise sensing microphone and use these to adjust signal levels to the power amplifier of the Public Address installation.

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The output level of the module will automatically and constantly adjust to follow the averaged rise and fall in ambient noise in the area served by the host amplifier (airports, hotel reception areas, transport termini, sports stadia, etc.) The ambient noise will be continuously sampled by the sensing microphone/s, sited as close to the sources of change as possible.

Where large areas have various localised sources of variable 'ambient' noise, it may be desirable to cover each with a separate sensor; for example, an underground railway tube would benefit from having one sensor at each end to detect the noise of trains arriving from either direction.

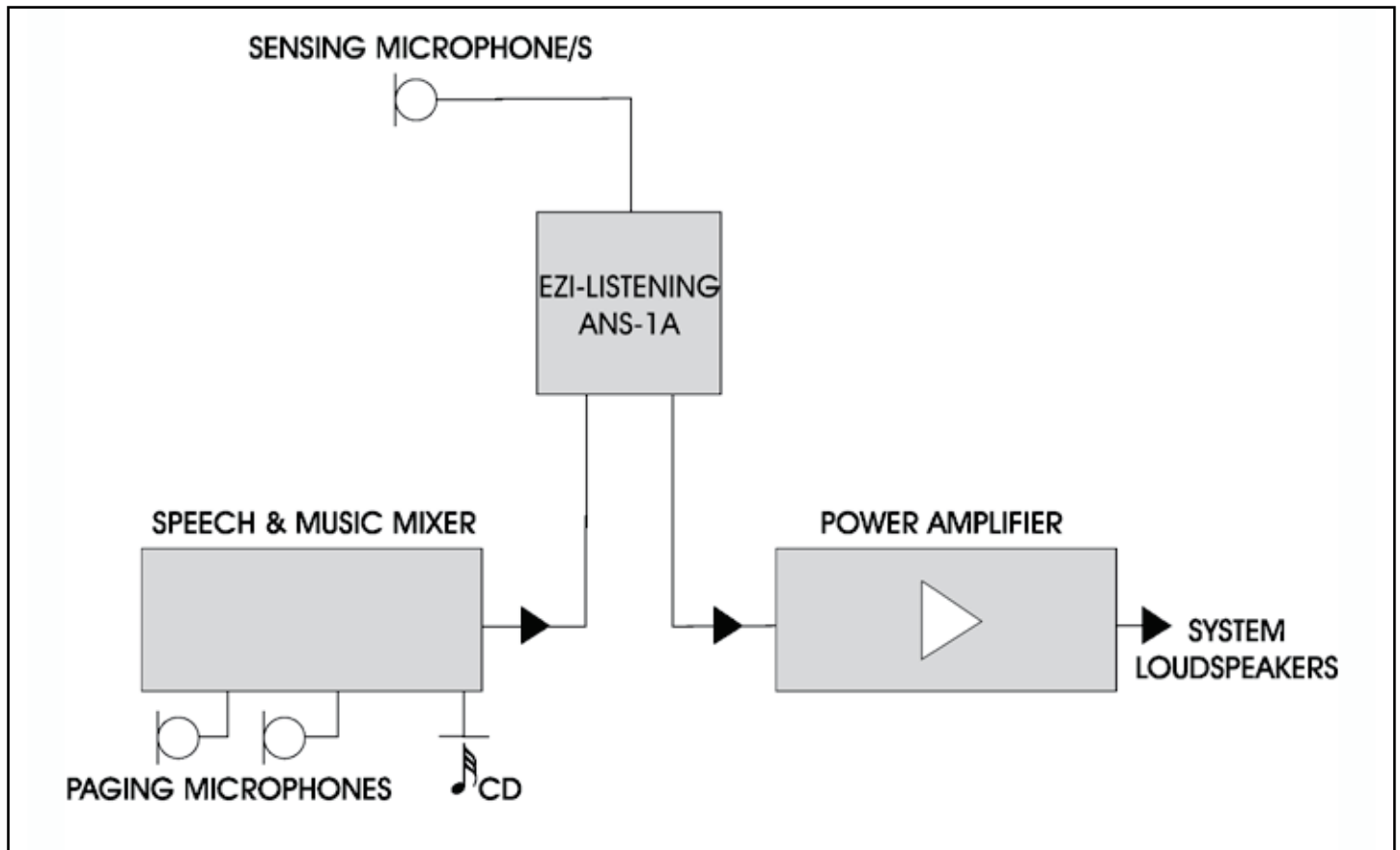
A pre-install planning document is freely available for a full understanding of the concept of ambient noise sensing. It is recommended that a copy is obtained from our Sales Office or downloaded in PDF format from our website.

Monitoring Microphone: Choice and Positioning

The Boundary microphone offers many advantages over more conventional types, providing good omni-directional pickup for overall ambient noise monitoring. We recommend our C200 series.

ANS-1A is designed for use as an interface between the system pre-amplifier and power amplifier components. Boundary microphones, preferred for this type of application, can be directly mounted on most non-resonant, smooth, non-sound absorbent, surfaces to provide the benefits earlier described.

In enclosed environments, where the ambient noise is to be monitored and sound controlled, the chosen surface on which the microphone is to be mounted should also take note of loudspeaker proximity.



TECHNICAL SPECIFICATION

Ezi-Listening ANS-1A

Supply

24V DC @ 40mA. This can be derived from the host system, or plug top power supply PSU24V

Sensor microphone input sensitivity

A) 200uV balanced low impedance; switchable phantom powering for C200 electret is provided.

B) 150mV, unbalanced high impedance

Audio input/output preferred level

500mV, unbalanced

Reaction time (to noise change)

20 secs max, 10dB range, adjustable on site

Enclosure dimensions

180 x 120 x 70 deep

Interface connections

All signal interfaces are XLR; inputs are female, output male

24v dc power socket: lockable 2.5mm by SWITCHCRAFT

Physical installation

ANS-1A should be installed in close proximity to the Public Address system that it will control; this could be within the system rack or wall mounted. The enclosure has provision for permanent 'through hole' fixing in the chosen location

Order codes

ANS-1A – Ezi-Listening

PSU 24V – Power supply

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