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Audix Noise Sensing Systems are installed in many large public buildings including Airports, Exhibition Halls and Convention Centres where fluctuations in background noise are sufficient to necessitate an automatic adjustment of system sound pressure level.

Noise sensing microphones are selected and positioned in accordance with the acoustic characteristics of the sound installation in question. Where loudspeaker zones are served by individual amplifiers, it is customary to designate one or more noise sensing microphones to each zone. Where there are several microphones an "average" reading of the ambient noise is fed back to the Audix noise sensing system housed within the equipment rack.

A modular system of noise sensing cards, each providing 3 levels of automatic level adjustment of a loudspeaker zone.

As many as 8 cards can be mounted within the standard 19" rack frame.

Ambient noise level is continuously sampled during system activity.

Locks at either high, medium or low position at instance of operating an input source, such as a microphone speak button.

Level is held until microphone speak button is released.

Signal adjustment range of ± 6 dB.

System is by-passed automatically on failure of 24V d.c. supply.

Threshold adjustment to vary sensitivity to suit individual requirements.

NSF/DANS/NSM1 & 2

Noise Sensing

Consultant Engineering Specification:

Three levels of Compensation shall be provided for fluctuations in ambient noise level by continuous sampling. These shall be increments of 6dB with a threshold adjustment to vary sensitivity to suit individual requirements.

Each noise sensing card shall indicate presence of 24V d.c. supply, system by-pass and three levels of setting.

The Noise Sensing System shall be the Audix Systems NSF and DANS:

DANS: Noise Sensing Card
NSF: Noise Sensing Frame
NSM1: Noise Sensing Microphone, flush mount
NSM2: Noise Sensing Microphone, suspended

System Operation:

Each DANS noise sensing card has a separate input and output which forms part of the signal path into the amplifier for the loudspeaker zone in question. Once in operation, the noise sensing equipment provides automatic adjustment of the amplifier output to compensate for variations in background noise. Each DANS card embodies the edge card indicators and control shown.

NSF:

Dimensions: Height 135mm (3U) x Width 485mm x Depth 385mm
 Power Requirements: NSF c/w 8 x DANS 1A = 24V d.c.
 Weight: NSF c/w 8 x DANS = 8Kg
 Terminations: NSF screw terminations for all inputs and outputs

DANS:

Input Signal: Electronically balanced microphone input. Transformer balanced line input (main signal path).
 Output Signal: Transformer balanced signal output.
 Adjustment Range: $\pm 6\text{dB}$
 Mounting Arrangements: NSM1 microphone: flush mounted
 NSM2 microphone: suspended from XLR box (not included)
 Input Sensitivity: NSM1: -72dB
 NSM2: -72dB
 Access to DANS: 2 screw front fixing. Hinge down lid.
 Power Failure Provision: Automatic by-pass of noise sensing system.

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