

DANS01

Dynamic Ambient Noise Sensor

- PA announcements dynamically and constantly adjusted to suit the current ambient noise
- Reduction of PA noise abatement problems
- The DANS Sensor uses a built-in microphone to detect the ambient noise



The DANS01 Dynamic Ambient Noise Sensor is designed to work with ASL's VIPEDIA range of DSP Audio Routers as part of the Dynamic Ambient Noise Sensing System.

Dynamic ANS System constantly maintains the volume of Public Address announcements just above the ambient noise, guaranteeing that announcements are always intelligible, and not excessively loud.

The DANS System employs digital signal processing technology to distinguish the ambient noise from the announcement. This enables adjustments of the broadcast volume level to reflect any variations in ambient noise, even while the announcements are being made. Consequently, the overall intelligibility and comfort of announcements are improved over traditional ANS systems, and Public Address noise abatement problems are also improved.

A typical example of the benefit of this system is for a broadcast which starts when a train is approaching the platform, and which continues after the train has stopped. Conventional ANS systems set the broadcast volume at a constant level based on the ambient noise present just before the start of the announcement. In this case a conventional ANS would set the broadcast volume to be correct while the train was approaching, and the volume would then be excessively loud after the train had stopped. Instead of this the DANS System constantly adjusts the broadcast to reduce the volume as the train comes to a halt and maintains the volume at intelligible and pleasant levels for the entire duration of the announcement.

For further details, and for information on other products, please visit www.asl-control.co.uk.

Datasheet

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SPECIFICATION

General

Supply Voltage Range..... 18 – 40 V DC
Current Consumption 90 mA @ 24 V DC supply
Output 0 dBu balanced audio (nominal) / 66 Ω
Ambient Noise Measurement Range 55 – 95 dBA

Mechanical

Overall Dimensions (H x W x D) 160 mm x 100 mm x 81 mm
Weight 980 g
Gland / Conduit Hole 20 mm
Finish..... Grey NCS S1002-B 20% Gloss
..... Low Smoke & Fume, Zero Halogen
Enclosure Die-cast aluminium
Connections Internal screw-in terminals

Environmental

Temperature -40 °C to +50 °C (± 3 dB accuracy) (storage and operation)
Humidity Range..... 0% to 93% non-condensing
Ingress Protection IP65

Compatibility

DSP Audio Router VIPEDIA-12 Range

Product Part Codes

DANS01 Dynamic Ambient Noise Sensor



This equipment is designed and manufactured to conform to the following EC standards:
EMC: EN55103-1/E1:1996, EN55103-2/E5:1996, EN50121-4:2006, ENV50204:1995
Safety: EN 60065:2002

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Assessed to ISO 9001
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