

# 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](http://www.asl-control.co.uk).

## SPECIFICATION

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### General

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

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### Mechanical

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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

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### Environmental

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Temperature ..... -40 °C to +55 °C ( $\pm 3$  dB accuracy) (storage and operation)  
Humidity Range..... 0% to 93% non-condensing  
Ingress Protection ..... IP65

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### Compatibility

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DSP Audio Router ..... VIPEDIA-12 Range and INTEGRA Range

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### Product Part Codes

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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

#### Manufacturer

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Assessed to ISO 9001  
LPCB Cert No: 1043QMS

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