- ✓ Dynamic Ambient Noise Sensing microphone
- ✓ Ensure announcements remain clear and at comfortable volumes for the entire duration.
- ✓ Extended Temperature Range
- ✓ Discrete IP65 enclosure
- ✓ Fail safe operation with volume returning to pre-commissioned levels



DANS01

Dynamic **Ambient Noise Sensor**

Zenitel's Dynamic Ambient Noise Sensor (DANS01) is a IP65 rated microphone designed to work with Zenitel Audio Routers as part of the Dynamic Ambient Noise Sensing System. Automatic ambient noise control on a PAVA system typically works by utilizing multiple sensors to detect the ambient noise level in the environment. These microphones are strategically placed in the area where the background level varies through out the day.

Algorithms and DSP

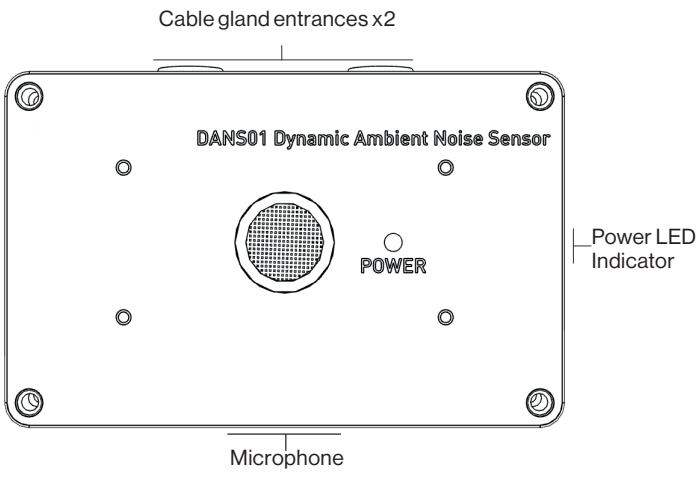
The Audio Router employ algorithms and digital signal processing techniques to dynamically analyze ambient noise picked up by the microphone and adjust audio output continuously during the broadcast. This dynamic adjustment enables precise control and optimization of sound levels, enhancing communication effectiveness in various environmental conditions. Incorporating the ability to differentiate between the ambient noise within the zone and the broadcast levels in both the associated zone and any adjacent zones

Typical Applications

Zenitel also offers conventional 'fix and hold' ambient noise systems, which set the broadcast volume at a constant level based on the detected ambient noise and maintain that volume throughout the broadcast. In contrast, the Dynamic Ambient Noise System continuously adjusts the broadcast level to ensure announcements remain clear and at comfortable volumes for the entire duration. This system is ideal for environments where background noise fluctuates rapidly, such as train platforms with passing trains

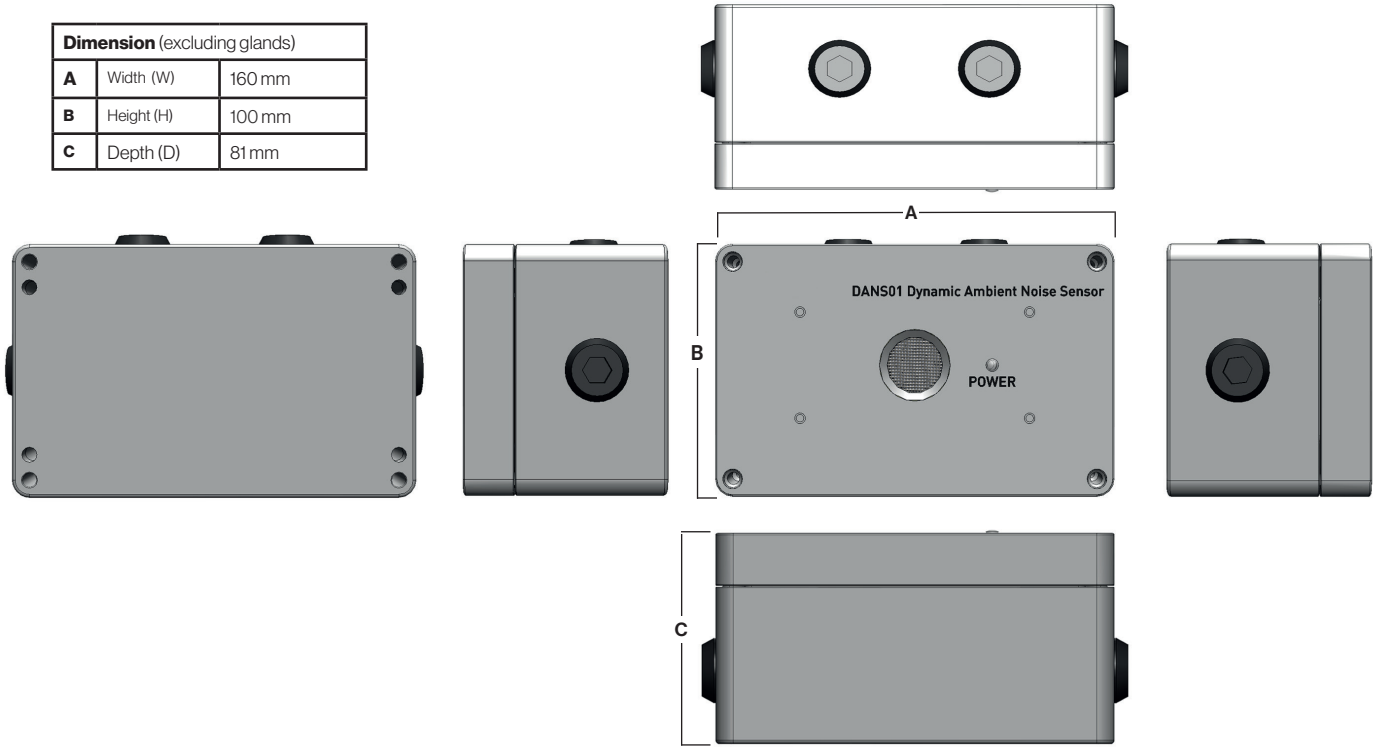
MECHANICAL

Front Panel



Views & Dimensions

Dimension (excluding glands)		
A	Width (W)	160 mm
B	Height (H)	100 mm
C	Depth (D)	81 mm



SPECIFICATIONS

General

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

Mechanical

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

Environmental

Operating Temperature	-40 °C to +55 °C (±3 dB accuracy)
Storage Temperature	-40 °C to +55 °C (±3 dB accuracy)
Humidity	0% to 93% non-condensing
IP Rating	IP65

Approval and Standard Compliance

Railway	EN 50121-4
Environmental Directive (Safety)	EN / IEC / 62368-1
Environmental Directive (Immunity)	EN 55103-2
Environmental Directive (Emissions)	EN 55032 / EN 6100-6-2 / EN 6100-6-4 Class B
Environmental	RoHS / REACH
Conformity Europe	CE / CPR / UKCA

Product Part Code

DANS01	Dynamic Ambient Noise Sensor

Compatible Products

INTEGRA-xx / INTEGRA-xx-PRO Range	2000W Public Address / Voice Alarm System / Batteries not included
VIPEDIA-12-NET / VIPEDIA-12-PRO	DSP Audio Controller / Router
VAIA Range	4 Channel PAVA Amplifier and Controller

Alternative Products

ANS04-ES	Ambient Noise Sensor

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