

ANS04-ES

IP65 Ambient Noise Sensor (Extended Temperature Range)



The ANS04-ES Ambient Noise Sensor is designed to work with ASL's range of DSP Audio Routers as part of the Ambient Noise Sensing System.

The sample and hold Ambient Noise Sensor system sets the volume of announcements just above the ambient noise, guaranteeing that announcements are always intelligible, and not excessively loud.

The ANS sensor detects ambient noise using its built-in microphone. The detected signal is weighted with a speech-band response for the best system performance and is then translated to a value of measured ambient noise in dBA. This value is used to proportionally adjust the system output gain for the configured output channel or channels.

The system is set up for the maximum broadcast volume without the ANS sensor, and the ANS system then reduces the gain from this level when the zone is quiet.

Two ambient noise measurement ranges are selectable, depending on the required system volume and expected ambient noise level:

- High Range from 65 dBA to 95 dBA, and
- Low Range from 55 dBA to 85 dBA

ASL's DSP Audio Router are able to support the connection of multiple ANS04-ES units. For further details, and for information on other products, please visit www.asl-control.co.uk.

The ANS range is selectable via an internal switch and is identified by external LEDs. These LEDs also provide a useful visual indication of the unit's operation, as their brightness varies with the ambient noise level. There are also two internal status LEDs for use in installation and fault finding. A green LED indicates the presence of power when lit, and an amber LED illuminates in the event of a microphone capsule open or short circuit fault.

SPECIFICATION

General

Supply Voltage Range.....21 – 40 V DC
 Current Consumption 35 mA @ 24 V DC supply
 Output 4 – 20 mA nominal (Contact Input)
 Ambient Noise Measurement Range¹ 65-95dBA (High Range) & 55-85 dBA (Low Range)²

Mechanical

Overall Dimensions (H x W x D) 160 mm x 100 mm x 81 mm
 Weight..... 980 g
 Gland / Conduit Hole 25 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 Routers VIPEDIA-12 Range, VAR Range and IPAM Range

Product Part Codes

ANS04-ES.....Ambient Noise Sensor Extended Temperature Range

¹ Ambient Noise Measurement Range is selectable via internal switch.

² Low range ANS is not supported by all VAR Router software versions. Please refer to Application Solutions Limited for further details.



This equipment is designed and manufactured to conform to the following EU Directives:
 Electromagnetic Compatibility (EMC): 2014/30/EU
 Low Voltage: 2014/35/EU
 Restriction of Hazardous Substances (RoHS): 2011/65/EU

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