

1023560500

Exigo Intelligent Noise Sensor - Industrial RJ45

EINS-1



Exigo



Automatic Volume



Automatic Gain Control

Exigo Intelligent Noise Sensor for Automatic Volume Control

DESCRIPTION

- Continuous measurement of ambient noise level and reports to Exigo amplifiers via TCP/IP network
- To be used together with Exigo Network Amplifiers (ENA2100, ENA2200, ENA2400)
- Single sensor can reports to multiple amplifier in the same audio zone
- PoE powered, native IP device
- Auxiliary DC power for redundancy (on request only)
- Dust- and water-protected to IP 65
- Monitoring and self-diagnostics of critical functionality
- Visible status indicators on front panel

The EINS-1 Industrial Ambient Noise Sensor is a rugged device, designed to measure ambient noise levels in an open area such as railway platform, tunnels, oil platforms, etc. The powder coated aluminum housing with IP 65 grade is designed to withstand harsh weather conditions such as heat, cold, raining and wind and therefore making it suitable for outdoor deployments. ENS01 is a native IP device which connects to Exigo amplifiers via TCP/IP network and report ambient noise level continuously. There can be more than one EINS-1 per audio zone, while a minimum of one EINS-1 necessary per audio zone.

The EINS-1 can be mounted on a vertical wall, ceilings or on a pole.

The Automatic Volume Control (AVC) algorithm runs on Exigo amplifiers that uses one or more EINS-1 per audio zone to measure the ambient noise level and compensate speaker output gain by raising Sound Pressure level (SPL) with increasing ambient audio level. This will result in a consistent Signal-to-Noise ratio (SNR) and therefore making sure the audience hear the Public Address announcements loud and clear.

SPECIFICATIONS

MECHANICAL

Dimensions	187x147x55mm (187x200x55mm incl. connector)
Weight	0.75 kg
Mounting	On-wall , ceiling, pole, etc. (On-request only)
Color	Powder coated aluminum, graphite grey

ENVIRONMENTAL

Operating temperature	-40°C to +70°C (-40°F to +158°F)
Storage temperature	-40°C to +70°C (-40°F to +158°F)
Operating humidity	10% to 95% RH (non-condensing)
Storage humidity	10% to 95% RH (non-condensing)
Air pressure	600 hPa to 1200 hPa
IP-rating	IP-65

ELECTRICAL

PoE	YES (1 x)
Power	3W (idle) to 12,9 W (max)
Auxiliary DC power	24 V nom (16 to 48 V) - on request only
Indication	LED indication for operational status

NETWORK

Connection	1 x RJ45 (Industrial Type)
Connector, mating part	Backshell ALTW RCP-5SPFFH-SCM7001
Ethernet type	100BASE-TX
Functions	Auto negotiating, Auto MDIX
Compatibility	Exigo via ZAP

MICROPHONE

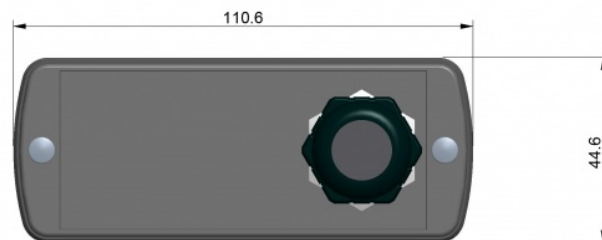
Type	Electret microphone with overhang protection
Sensitivity	-46+/-4.0dB(at f=1KHz,0dB=1V/Pa)

CERTIFICATIONS

Immunity	EN50121-4, EN 60945*, EN 50130-4*, EN 61000-6-1*, EN 61000-6-2*, FCC-47 part 15B*
Emission	EN50121-4, EN 60945*, EN 50130-4*, EN 61000-6-3*, EN 61000-6-4*, FCC-47 part 15B*

* Pending certification

TECHNICAL DIMENSIONS



All dimensions in mm

USED WITH



1023000000

ESC1

Exigo System Controller



1023102200

ENA2200

Exigo Network Amplifier 2 x 200W

1023102410

ENA2400-AC

Exigo Network Amplifier 2 x 400W AC



1023122061

ENA2060-DC1

Exigo Network Amplifier 2 Channels, 60W for Rolling Stock