



540S

AMBIENT NOISE SENSOR

540S-2

AMBIENT NOISE SENSOR &
MOUNTING PLATE

540S2TANY

AMBIENT NOISE SENSOR &
MOUNTING PLATE, WHITE - GORE-TEX COVERING



TECHNICAL DATA SHEET

PRODUCT SUMMARY

The AtlasIED Model 540S Ambient Noise Sensor is designed to monitor ambient sound levels in controlled environments, providing real-time data to various AtlasIED systems for dynamic sound adjustments. Equipped with an omnidirectional condenser microphone, the 540S captures ambient sound levels. Its preamplifier and analog conversion module process the audio signal, converting it into a varying DC waveform. This conversion method ensures immunity to electromagnetic interference, delivering reliable noise measurements even in challenging environments.

Designed for integrators and system designers, the AtlasIED Model 540S offers a robust solution for ambient noise monitoring, ensuring clear and adaptive audio performance across various installation scenarios.

MODELS AVAILABLE

The 540S is available in three models to suit various installation needs:

- **IED0540S:** Standard sensor module without a mounting plate.
- **IED0540S-2:** Includes a 2-gang (North American) brushed aluminum mounting plate for easy installation.
- **IEDC0540S2TANY:** Weatherized version of the IED0540S-2 with a white Gore-Tex covering, suitable for outdoor or harsh environments.

APPLICATIONS

The 540S Ambient Noise Sensor integrates seamlessly with the GLOBALCOM® ecosystem, including:

- T112
- T112C
- IED1544ZOP
- IED1544ZOPC
- DNA2404CL
- DNA2404CH
- DNA2404DL
- DNA2404DH

The 540S Ambient Noise Sensor also integrates with the 5400 Series component, including:

- IED5404DZM

540S
AMBIENT NOISE SENSOR

540S-2
AMBIENT NOISE SENSOR &
MOUNTING PLATE

540S2TANY
AMBIENT NOISE SENSOR &
MOUNTING PLATE, WHITE - GORE-TEX COVERING



TECHNICAL DATA SHEET

TECHNICAL SPECIFICATIONS

540S ELECTRICAL	
Input Voltage Range	+27VDC – +30VDC
Output Voltage Range	-15VDC – 12VDC
Normal Operating Levels (dB SPL)	60dB to 110dB
Max Cable Length	762m (2500 ft)

540S-2	
Height	4.5" (11.43cm)
Width	4.5" (11.43cm)
Depth	1.4" (3.56cm)

WARRANTY	
Warranty Period	36 Months

540S

AMBIENT NOISE SENSOR

540S-2

AMBIENT NOISE SENSOR &
MOUNTING PLATE

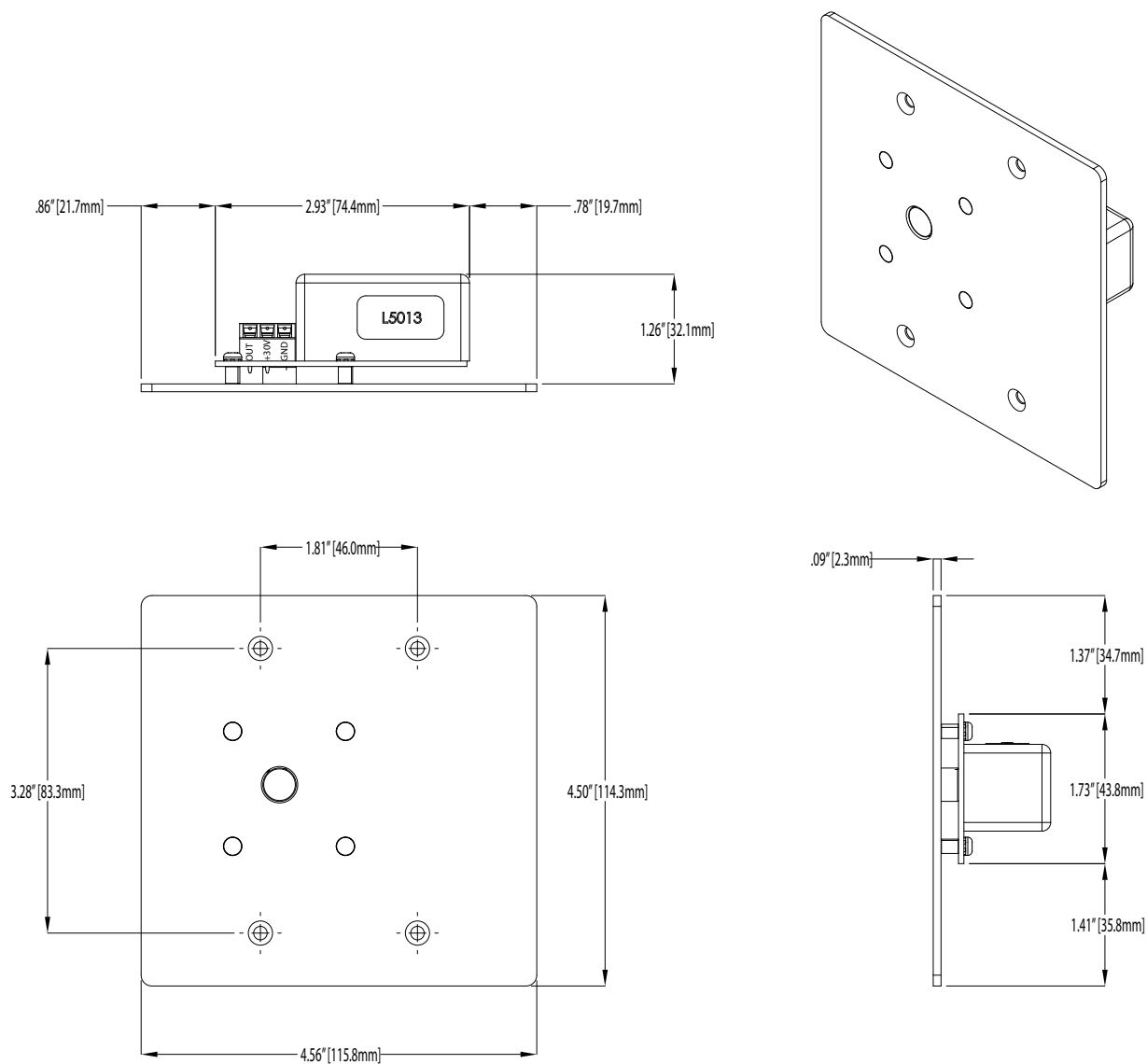
540S2TANY

AMBIENT NOISE SENSOR &
MOUNTING PLATE, WHITE - GORE-TEX COVERING



TECHNICAL DATA SHEET

DIMENSIONAL DRAWINGS



540S

AMBIENT NOISE SENSOR

540S-2

AMBIENT NOISE SENSOR &
MOUNTING PLATE

540S2TANY

AMBIENT NOISE SENSOR &
MOUNTING PLATE, WHITE - GORE-TEX COVERING



TECHNICAL DATA SHEET

PACKAGE CONTAINS

ITEM	QUANTITY
540S	
A 540S - Ambient Noise Sensor	1
540S-2	
B 540S - Ambient Noise Sensor	1
C 2 - Gang Brushed Aluminum Mounting Plate	1
540S2TANY	
B 540S - Ambient Noise Sensor	1
C All Weather White Gore - Tex Covered Mounting Plate	1



A



B

C

540S

AMBIENT NOISE SENSOR

540S-2

AMBIENT NOISE SENSOR &
MOUNTING PLATE

540S2TANY

AMBIENT NOISE SENSOR &
MOUNTING PLATE, WHITE - GORE-TEX COVERING



TECHNICAL DATA SHEET

ARCHITECT & ENGINEER SPECIFICATIONS

The ambient noise sensor shall monitor and report real-time ambient noise levels to compatible AtlasIED systems for automatic audio level adjustments. It shall integrate with the GLOBALCOM® ecosystem, including models T112, T112C, IED1544ZOP, IED1544ZOPC, and DNA series amplifiers (DNA2404CL, DNA2404CH, DNA2404DL, DNA2404DH). It shall also interface with the IED5404DZM Digital Zone Managers.

The sensor shall include an omnidirectional condenser microphone, a preamplifier, and an analog conversion module. The module shall convert the audio signal into a varying DC waveform to reduce susceptibility to electromagnetic interference.

The sensor shall be available in the following models:

- **IED0540S:** Sensor module without a mounting plate.
- **IED0540S-2:** Includes a 2-gang (North American) brushed aluminum mounting plate.
- **IEDC0540S2TANY:** Weatherized version of the IED0540S-2 with a white Gore-Tex covering.

The ambient noise sensor shall be manufactured by AtlasIED.