

IED MODEL 540S

REMOTE SENSOR

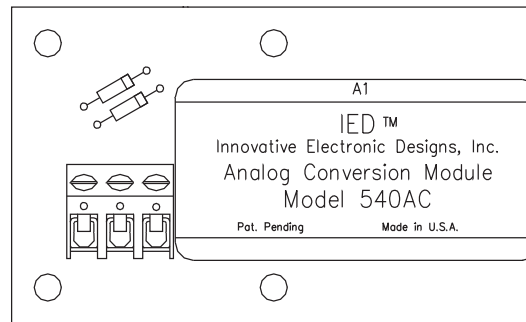
The IED Model 540S Remote Sensor is a component of the IED Ambient Analysis System. It operates with the 500 series Announcement Control System, 9000 series Titan digital audio platform, and the 8000 series TIPS system. The function of the 540S is to detect the ambient sound level (desired signal level plus undesired background level) in the areas to be controlled, to convert this level and to send this information back to the 540 Ambient Analysis System.

The 540S consists of an omnidirectional condenser microphone, a preamplifier, and an analog conversion module. The analog conversion module converts the audio signal to a varying DC waveform for use by the system. A drawing of the basic module is shown in Figure 1. In addition to the basic module, three versions with other mounting schemes are available as shown in Figures 2 and 3.

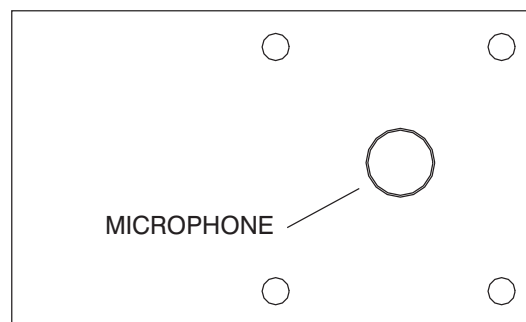
540S Versions

- 540S-2 - 2-gang brushed aluminum mounting plate
- 540S-4 - Adaptor mounting bracket to fit in 4-inch speaker mounting baffle

For installation instructions refer to Section 3, Group 20, Sub B, the installation instructions for the Model 540M Mainframe.



TOP VIEW



BOTTOM VIEW

Figure 1 - 540S Remote Sensor



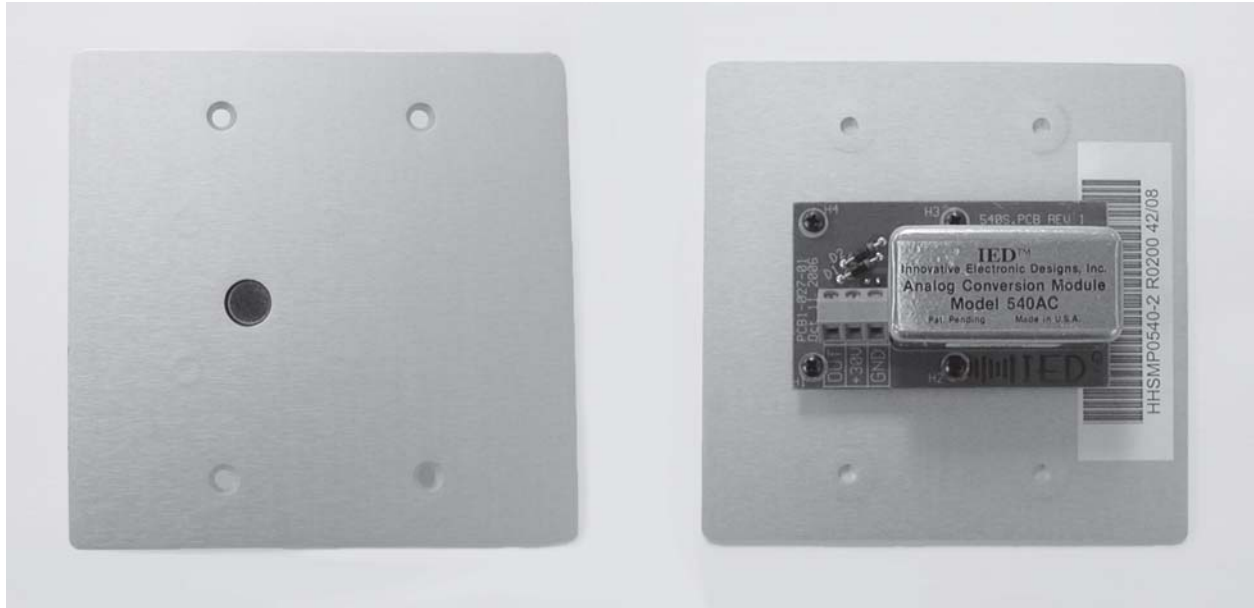


Figure 2 - 540S-2: 540S on a 2-gang brushed aluminum plate.

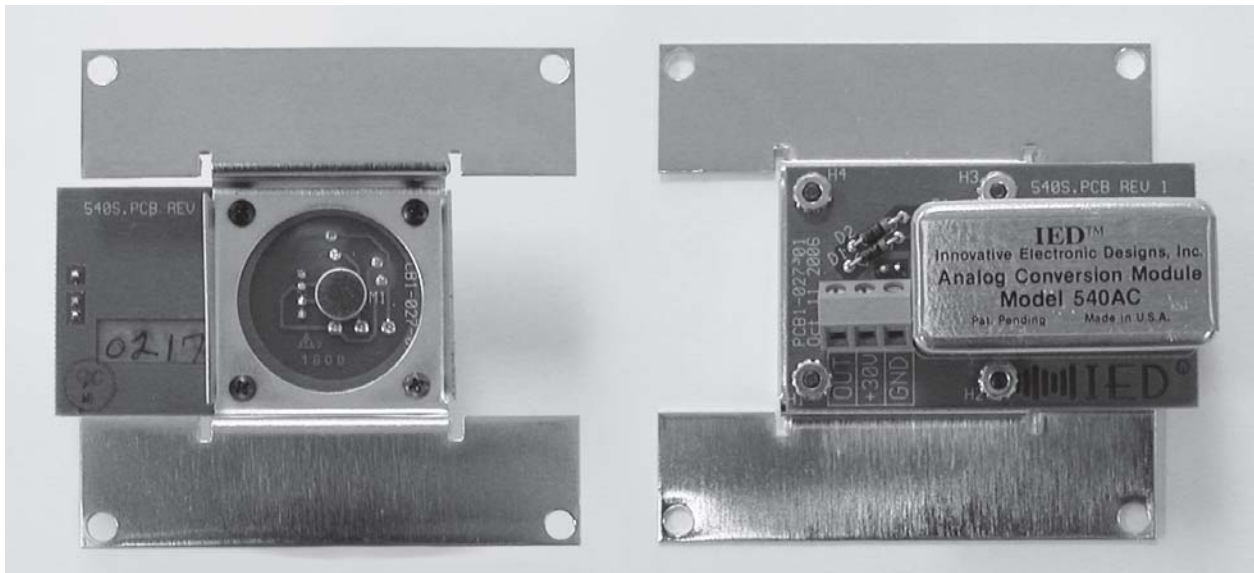


Figure 3 - 540S-4: 540S on 4-inch speaker baffle adaptor plate

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SPECIFICATIONS

ELECTRICAL

- | | |
|--|----------------|
| 1. Input Voltage Range (Volts DC) | +27V to +30V |
| 2. Output Voltage Range (Volts DC) | -15V to +12V |
| 3. Normal Operating Levels (dB SPL). | 60 dB to 110dB |

MECHANICAL

- | | |
|------------------|-------------------|
| 1. 540S-2 | |
| Width | 4.5 in (11.43 cm) |
| Height | 4.5 in (11.43 cm) |
| Depth | 1.4 in (3.56 cm) |
| 2. 540S-4 | |
| Width | 3.7 in (9.40 cm) |
| Height | 3.6 in (9.14 cm) |
| Depth | 1.5 in (3.81 cm) |



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