

THE ENVIRONMENT

For most education environments, public address and emergency notification systems are critical infrastructures for both daily operations and emergency situations. Educational institutions commonly require an open standard network-based technology for building and campus communications to integrate with other core communication systems.

Installing the right [IP speakers](#), [IP paging adapters](#), and [IP visual alerters](#) (strobe lights) is a crucial part of a school PA system. From anywhere within the school, such as hallways, classrooms, or gymnasiums, the building occupants need to be able to receive information quickly, clearly, and effectively.

SOLUTIONS & BENEFITS

All Algo IP Speakers are equipped with an embedded microphone to allow for ambient noise detection and two-way talkback. These features enable schools to establish effective communication within their environments, bringing great solutions to teachers, students, and administrative teams. The microphone is used to serve two main purposes. First, it allows for users to establish two-way talkback, which is useful in many environments, such as education and commercial offices. Second, it allows for ambient noise detection, enabling the speaker to adjust the sound output to be appropriate for the level of background noise.

Two-Way Talkback

Need: Bi-Directional communication between the office and the classroom is mandatory for many schools.

Solution: Algo speakers offer hands-free communication to teachers who need to communicate with the admin office. With the Algo 8190S in the classroom, two-way talk can be activated with an easy button to press and initiate a call without too much effort.

Not only is it imperative for organizations to be able to communicate messages through PA systems, but in many cases, being able to establish two-way talk can increase the level of understanding, quality of information, and quickness of response in most situations. Two-way talk allows administrative staff to be informed of all situations and enables them to share relevant information.

Algo's [8190S IP Speaker – Clock – Visual Alerter](#), has a button to initiate a two-way talk. The 8190S is often deployed in classroom settings where a teacher can initiate two-way talk

through the press of a button and can easily converse with administrative staff. This function is useful for event reminders or emergency incidences. Admin staff can then relay the appropriate information or provide instructions. It's easy, simple to use and very functional for teachers in their routine communication or in case of emergency.

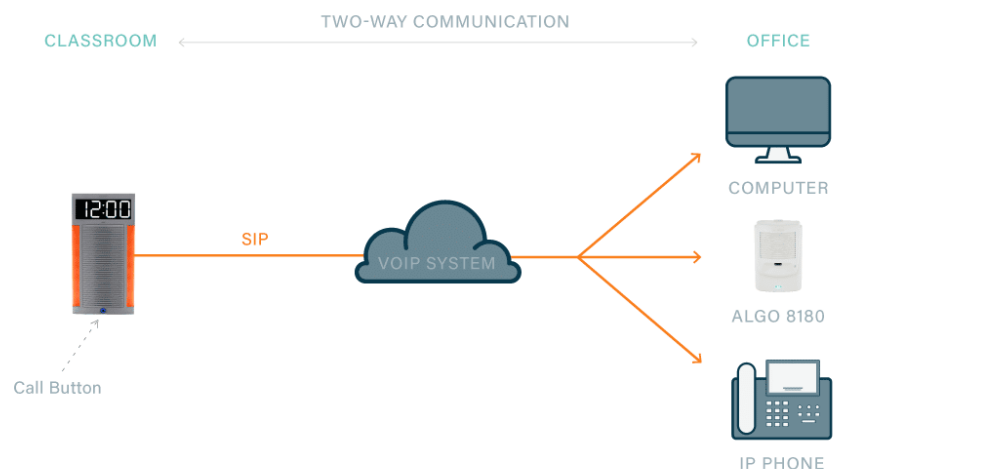
Product – Best Solution: 8190S IP Speaker – Clock & Visual Alerter



<https://www.algosolutions.com/product/8190s-ip-speaker-clock-visual-alerter/>

<https://www.algosolutions.com/resources/articles/8190s-ip-speaker-clock-visual-alerter/>

Algo 8190S - Two-Way Talkback



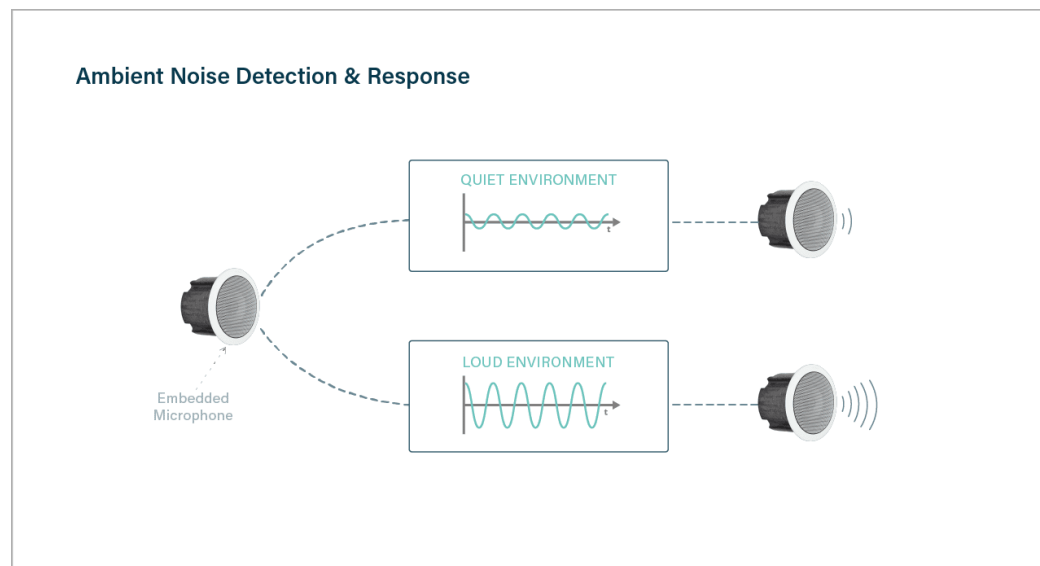
Ambient Noise Detection & Response

Need: The speakers need to be capable of adapting to increased noise levels in the classroom.

Solution: In a school, the level of engagement and enthusiasm of students changes per classroom. Algo speakers have ambient noise detection as one of the core features, enabling the speaker to adjust the sound output to be appropriate for the background noise level, without blasting with volume. Teachers can rely on Algo's ambient noise technology –The speaker's microphone to pick up the sound of the environment and automatically adjust the speaker's output level according to the ambient noise.

In a single building, each room can have different levels of sound. In a school, the level of engagement and enthusiasm of students changes per classroom. In a manufacturing facility, the noise level shifts from the office space to the production floor. Many factors impact the sound requirements for emergency alerts, such as the hullabaloo of children or the growl of heavy machinery. The sound in a single room may also change drastically, quickly going from complete silence to busy excitement. Being able to accommodate such shifts in sound is essential to ensure information is parted over a PA system clearly at the right volume.

Algo speakers monitor changing ambient noise levels when the environment becomes louder or quieter and automatically adjust the volume levels accordingly. They electronically adjust the level of a page announcement or background music and ensure audibility during periods of intense noise.



Products – Solution:

Any of Algo's speakers




8180 IP Audio Alerter

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8190 IP Speaker - Clock

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8190S IP Speaker - Clock & Visual Alerter

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8188 IP Ceiling Speaker

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8198 IP PoE+ Ceiling Speaker

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1198 Satellite Ceiling Speaker

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8189 IP Surface Mount Speaker

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8186 SIP Horn Speaker
Speaker Brochure
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8196 IP PoE+ Horn Speaker

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1196 Satellite Horn Speaker

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