

# Support Handbook

## AGC configuration



Reference: **LDA SIME CONTROL**

## 1 Introduction

The Sime configuration parameters for operating sensing microphones( noise probes)in an LDA system so that the system itself is able to adjust the audio level to each zone depending on the noise level are described next.

## 2 Configuration

The way to set the behavior of these type of microphones is by the definition of several parameters in the SIME data base.

The data base table on which we will have to modify the parameters is in the **equipo\_attr** table, that contains the parameters and attributes of all the system elements. Therefore, first we will have to look in the **equipo** table for the number of equipment that the sensing microphones have assigned. With this number we will be able to find them in the **equipo\_attr** table.

The parameters to configure are the following:

Parameter	Description	Default Value
<b>threshold</b>	It is the trigger level of the algorithm, in dB.	-28
<b>maximum</b>	It is the maximum increase in the signal level in dB (provided that the maximum value is not exceeded 0dB).	10
<b>response time</b>	Response time, in seconds.	3
<b>increase time</b>	Increase time,in seconds.	5
<b>decrease time</b>	Decrease time, in seconds.	5
<b>step up</b>	Step up, in dB.	2
<b>step down</b>	Step down, in dB.	1
<b>enable</b>	Activation or deactivation og the algorithm	1

The reponse time is the time that must be maintained above the threshold level to start the algorithm. This prevents levels being modified in case of noise peaks.

The increase and decrease times are the times that the signal takes to increase or decrease its level as much as the maximum value indicates.The step up and step down values indicate the progressive increase or decrease, in dB, where the level adjustment will be made.



As an example, when maximum level are 10, the raise time is 7 seconds, and the step up 2dB. That means an increase of 2dB every 1,4 seconds ( $7 \cdot 2/10$ )

Finally, the enable parameter allows to enable or disable the probe.

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