

Main characteristics

- **Pressure Level limiter based on the measurement of SPL**
- **30 dB correction range (attenuation)**
- **It registers acoustical parameters like LAeq, LAeq1'max, LFmax**
- **It registers all the occurred incidents: Disconnection from the mains, Sensor tampering**
- **It can be completely sealed**
- **Adaptable to any kind of regulation**
- **Internal Battery**
- **Data retrieval by LCD Screen, printer, serial connection with PC and modem**

The acoustic controller and limiter LCA-02 consists of an integrating averaging sensor and a linear attenuator. The sensor measures the sound pressure level in the room and the attenuator acts to correct the electrical signal level at the power amplifier input to ensure that the sound pressure level does not exceed the programmed limit.

The attenuator can correct up to 30 dB. If the necessary attenuation exceeds 30 dB, the LCA-02 penalises with an attenuation of 60 dB during a programmable period.

The LCA-02 also provides a detailed account of the sound pressure level (LA_{eq1h} , $Fast_{max}$ and $LA_{eq1'max}$ of the hour) and incidences produced during the last 60 days.

The LCA-02 permits a double timetable with different sound pressure level limits: "running time" and "night timetable". The "running time" is the opening hours of the establishment, from when it opens until it closes and it has a sound pressure limit. The "night timetable" is within the "running time" and it also has a sound pressure level limit, (lower than the "running time" one). Whenever the LCA-02 is outside of the running time, it attenuates 60dB.

It also allows you to programme "non-working days". In these days, the maximum sound pressure level can be exceeded without penalisation or recording of incidents.

The led display shows the continuous equivalent sound pressure level with A weighting (LA_{eq}), in decibels (dBA). There is a led bar below it that indicates the attenuation with 2 dB increments.

The LCD is used to programme the LCA-02 and to show the incidences. It normally indicates date, time and if it is a non-working day or during the night timetable.

If the LCA-02 is disconnected from the power supply, it continues working thanks to an internal battery, but with a fixed attenuation of 60 dB. The autonomy of the battery is two days. When it runs out, the LCA-02 turns off automatically and maintains all the information until the next connection. The LCA-02 memorises when the battery runs out and records the last 7 times this has occurred.

With a parallel printer you can print incidences summaries and graphics with the evolution of the sound pressure level.

It is possible to connect an external display with a led display and a led bar to permit the person that controls the volume to see.



INPUTS AND OUTPUTS

Audio Inputs and Outputs

Asymmetrical E/S Connectors (non-balanced):
RCA

Symmetrical E/S Connectors (balanced):

Input: XLR female

Output: XLR male

Input impedance:

50 k Ω

Output impedance:

100 Ω

Minimum output charge:

10 k Ω

Total harmonic distortion (THD):

< 80 dB

Frequency response (± 0.5 dB)

20 to 20 kHz

Typical noise (20 – 20,000 Hz):

Balanced: 180 μ V

No Balanced: 130 μ V

DL-2E external display connection output

XLR with 3 contacts (male)

MODEM connection output

DB-9 plug (male)

RS-232 serial connection output

DB-9 socket (female)

Connection with parallel printer output

DB-25 socket (female)

Attenuator

Range of attenuation:

0 – 30 dB

Penalisation attenuation:

60 dB

Sensor

Measurement range:

60 – 120 dB

Frequency range:

20—20,000 Hz

Function

Averaging time: 1 s

Frequency Weighting: A

Display

LED display (1s)

Programmable: 2 seconds, 10 seconds, 1 minute and N minutes (1<N<60).

Dimensions and weight

440x 226x 95 mm

2 units 19"rack

9 kg

Battery feed

220 V – 50-60 Hz

Maximum consumption

25 W

Storage Capacity

60 days

ACCESORIOS SUMINISTRADOS

Sensor LXM-9
Cable CNOMX9

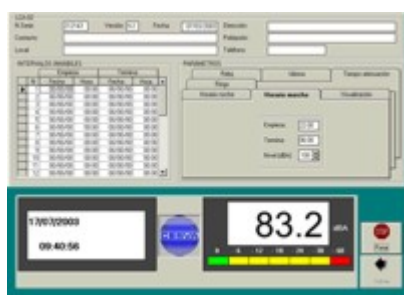
ACCESORIOS OPCIONALES

CB004	Sound Calibrator
DL-2E	External Display
SFTL02	Software for PC
CNOMX9	Connection Cable sensor-limiter 9m.
ALIC-1	Sealing Pincers
PLOM-1	Lead seal of \varnothing 9 mm (1kg)
ALAMB-1	Sealing Wire (50 m roll)

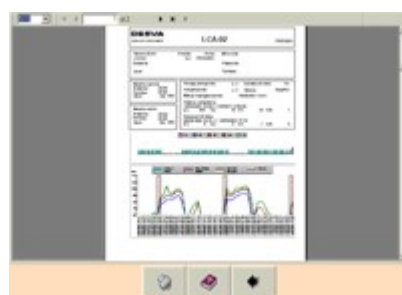
The characteristics, technical specifications and accessories may vary without prior notice

The **LCA-02** is supplied with the software application that allows you to:

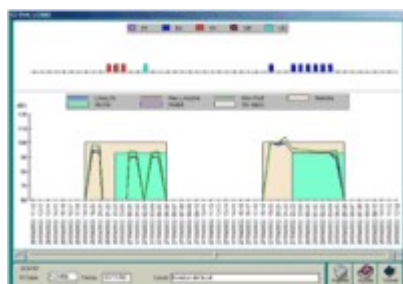
- Create a detailed report of the sound levels and the incidences.
- Programme all the parameters on one screen.
- Create reports in 6 different languages.
- Create graphics.



Real time data acquisition by modem



Generate a report



*Graphic display of data
(sound levels and incidences)*

*Numeric display of register data
(LeqT and sessions registers)*

INTERVALOS INHÁBILES

N	Empieza:		Termina:	
	Fecha	Hora	Fecha	Hora
1	31/12/02	23:00	31/12/03	13:00
2	22/02/03	20:00	23/02/03	09:00
3	00/00/00	00:00	00/00/00	00:00
4	00/00/00	00:00	00/00/00	00:00
5	00/00/00	00:00	00/00/00	00:00
6	00/00/00	00:00	00/00/00	00:00
7	00/00/00	00:00	00/00/00	00:00
8	00/00/00	00:00	00/00/00	00:00
9	00/00/00	00:00	00/00/00	00:00
10	00/00/00	00:00	00/00/00	00:00
11	00/00/00	00:00	00/00/00	00:00
12	00/00/00	00:00	00/00/00	00:00
13	00/00/00	00:00	00/00/00	00:00
14	00/00/00	00:00	00/00/00	00:00
15	00/00/00	00:00	00/00/00	00:00

Programme the LCA-02



Language configuration

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