User's Manual

PAGING MICROPHONE

Model: **A-1**

LDA audioTech

Content:

WARNING:
This piece of equipment must not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed over it.

AC power cords are the primary disconnect devices for this product and should be easily accessible at all times.

1 TECHNICAL DESCRIPTION:

The A-1 is an advanced paging microphone for professional PA installations.

The microphone features control by logical digital signals.

It features functions of “all-call”, signalling floor given and occuppied line by led lights.

The sound processing has been adapted to achive high quality results, in terms of quality, distortion, sensitivity, broadband and S/N ratio. That is why the A-1 includes a high quality dynamic capsule.

The A-1 has different modes of configuration, in order to be easily integrated in any type of installation. Additionally, it features pre-amp to provide a balanced output and preserve the audio quality in long distances.

As an option, it is possible to configure a chime tone before and after a paging.

2 PACKAGE CONTENT:

1 A-1 Microphone

2 Gooseneck

3 5 V DC Power supply

4 Anti-pop filter

5 XLR-5 female connector

6 User's manual

3 FUNCTIONING DESCRIPTION:

The microphone A-1 functions as an “all-call” , press to talk, single button microphone. It features light indicators to signal the state of the line/zone where the page will be broadcasted.

3. 1 Functioning modes:

Depending on the selected configuration, the microphone has different ways of acting in the system (see 4, Connection and configuration):

- **PTT/LATCH MODE:** Throughout the microphone selector, the behavior will be different. When its position is OFF, the microphone will work in PUSH TO TALK (PTT) mode, that is, the button should be pressed in order to make a page. In the position ON, with the first push of the button the microphone will be fixed on the “floor granted” to the user, and it will cease emitting once pushed again.

- **0V/5V MODE:** Using the operation selector, it is possible to configure the TTL output line signal, to indicate the use of the audio line in the system. 0V is low level signal and 5V is high level signal.

- **ON/OFF CHIME:** This position indicates if the chime tone is ON or OFF.

- **BUSY=LED MODE:** This selector configures the operating mode against a busy line signal. On the one hand, if it is in the OFF position, the microphone will not send audio or operation signals while the “BUSY LINE” signal is active. On the other hand, in the ON position, the microphone will only operate over the corresponding light indicator, sending signals of petition and audio. This mode requires normally a microphone signal process.

4. CONNECTION AND CONFIGURATION

EXTERNAL CONNECTION & CONFIGURATION:

1. Gain control: The potentiometer adjust the audio output gain.
2. PTT/LATCH selector
3. Audio+Control connector XLR 5 pole male.
   Pin out:
   1. GND
   2. Audio -
   3. Audio +
   4. Operation output 0/5 V
   5. BUSY input, active at 0V.

4. Power supply: 5V DC

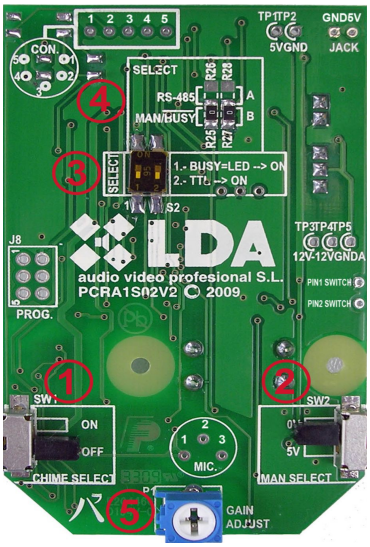
5. XLR-3 female connector for gooseneck.

   1. GND

   2. 2. Audio+Power supply to the capsule

   3. LED

INTERNAL CONFIGURATION



N	NAME	CONFIG.
1	CHIME SELECT*	ON / OFF
2	MAN SELECT	0V / 5V
3	BUSY=LED TTL=ON	ON/OFF ON/OFF
4	MAN&BUSY	A/B
5	GAIN ADJUST	+/-

5. FRONTAL DESCRIPTION

In the frontal part of the microphone is where there are all the elements necessary to its operation.

1. TALK button

2. Indicator of busy line, permission to talk.

3. Light indicator to signal that the capsule is active and ready to page.

6 TECHNICAL SPECIFICATIONS:

Model	**A-1**
Reference	**LDAA1S02**
Power supply	5V DC , 200mA.
Frequency response	200- 15000 Hz (+/-2dB).
Audio output	750mV 600 balanced
S/N ratio	100 dB (A weighting)
Sensitivity	-43 dB. at 1KHz
Direction	Axial polar hypercardioid diagram
Transducer type	Condenser
Dimensions	125 x 45 x 125 mm (width x height x depth)
Length of gooseneck	350mm
Power consumption	1W

Ver. 2