Induction Loop Amplifier

Easy Listen 100

Installation Manual

1 Technical Specification

Microphone Sensitivity	< 0,3 mV
Input Voltage Range	
MIC mode	0,3 - 50 mV
“SENSITIVITY -40dB” mode	3 mV - 5 V
LINE mode	3 mV - 3 V
AGC range	> 26 dB
Input Impedance	600 Ohm / 15 kOhm
Peak Output Current	> 10A peak
RMS Output Current	3A @1KHz.
THD	< 0.25%
Signal/Noise Ratio	> 50 dB
Frequency Band	
Control on Minimum	< (300 - 3000) Hz
Control on Maximum	> (100 - 10000) Hz
Indicators Threshold	
LIMIT	AGC Start Level
CLIP	Output Current > 2 A
LOOP	If Loop is connected
Number of Bell Melodies	8 or more
Mains Power Supply	220 VAC 15 %
Power Consumption	< 20 W
Dimensions	170 x 155 x 65 mm
Mass	1,4 kg

2 Operation Conditions

Relative Moisture (5 - 90) % without condensate
Temperature (20 ± 5) °C

3 Complete Set

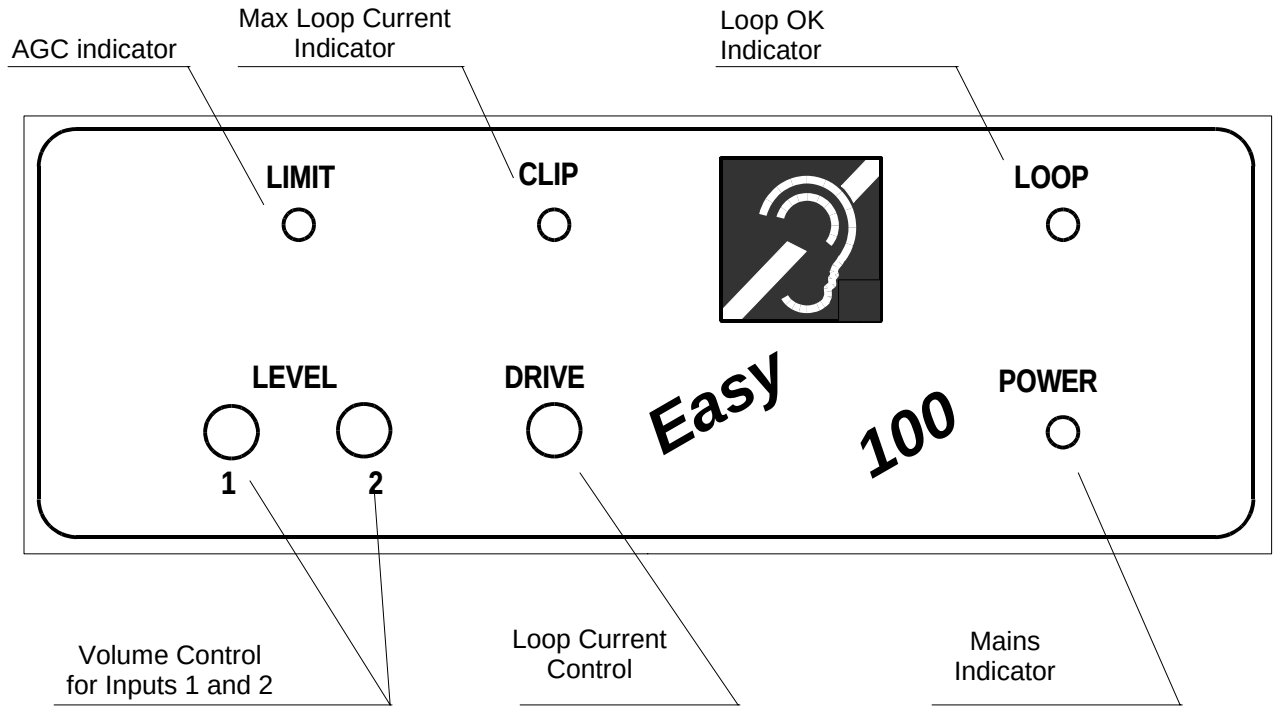
EL100 amplifier
Fixing parts
Self-adhesive plastic feet
Connector for the loop wire
Connector for audio input
Power cord

Additional Materials

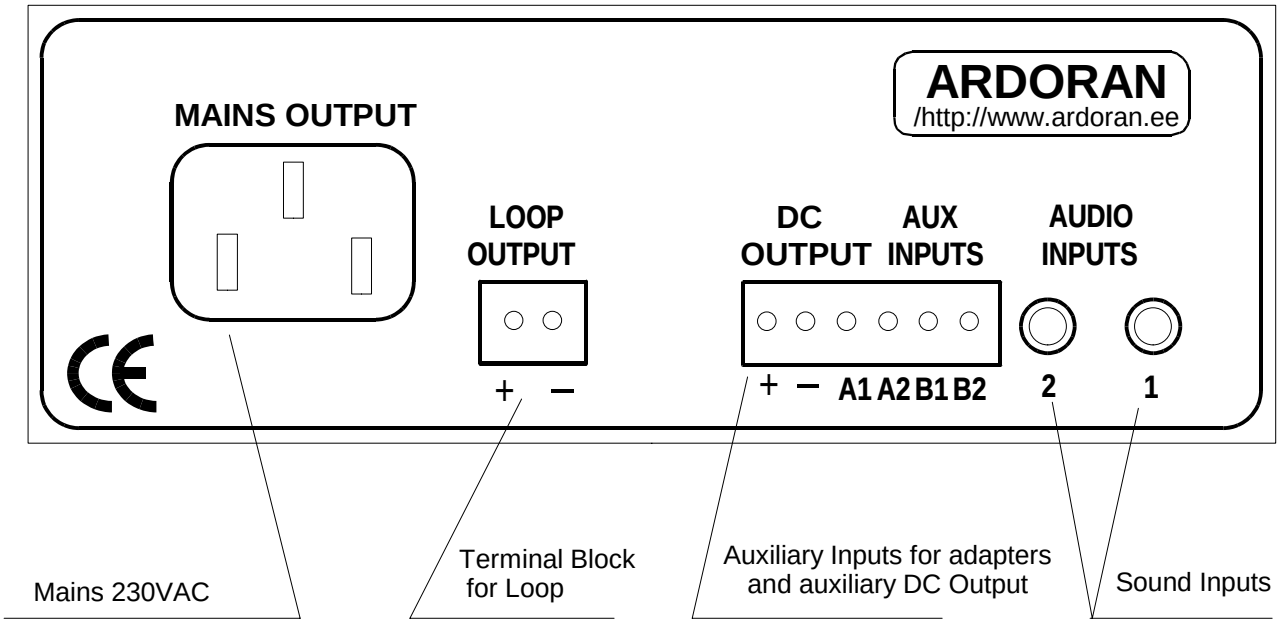
Wire for the Loop
Microphone
Telephone bell/ door bell adapter
Telephone voice adapter.

4 Control and Indicators

4.1 Front Panel



4.2 Rear Panel



5 Before Installation

5.1 Remove upper cover and set jumpers JP1...JP10 as shown in Annex A.

Factory settings :
AUDIO INPUT 1 Linear Input
AUDIO INPUT 2 Microphone Input

5.2 Fix the amplifier on the desk or under the desk as shown in Annex B.

5.3 Connect all cables. Door bell or Telephone can be connected as shown ia Annex C

6 Loop installation

Recommendations
Loop should be installed along the perimeter not exceeding 2,5 m from the floor
Wires bring to terminal block of the amplifier with a margin of 1 meter
Wire cross section and the number of turns is selected according to the following table

Room Area, m^2	Number of turns	Wire Cross-Section, mm^2
<35	2	0,38
35 - 50	2	0,38
50 -75	1	0.76
75 - 100	1	1,5
100 - 200	1	3

Loop resistance should be 0,2 ... 2 Ohm.

7 System Adjustment

Two persons are needed for the adjustment

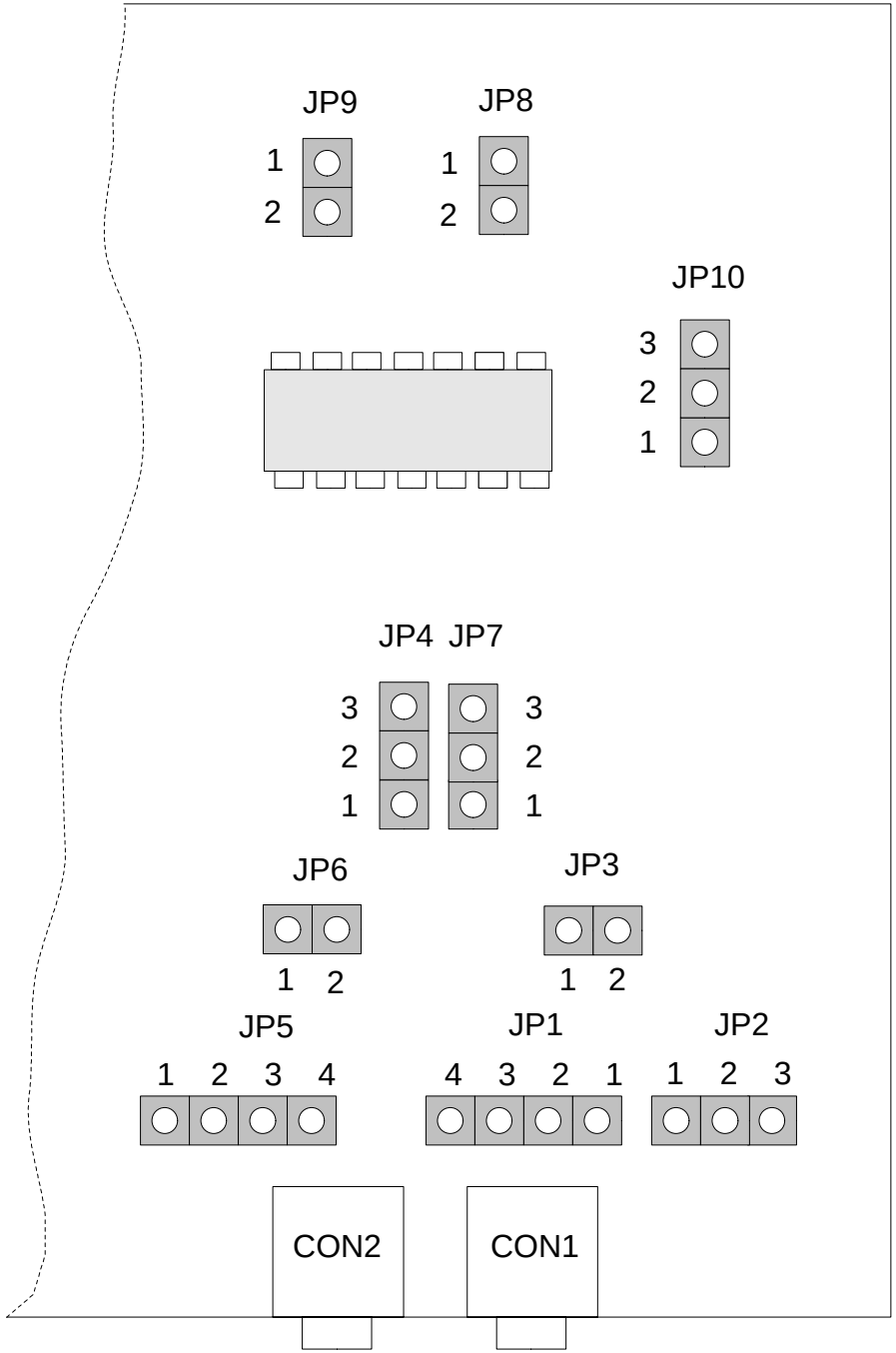
7.1 Turn on the power amplifier. Check the integrity of the loop on the indicator LOOP.

7.2 Enable the signal source and adjust the LEVEL knob to light the LIMIT indicator

7.3 Measure the electromagnetic field in the middle of the loop using EASY INSTALL 100 tester. Adjust the field level to 0 … 6 dB by DRIVE knob. Check sound quality using earphone.

7.4 Check the lack of overloading the amplifier on CLIP. If necessary, adjust the DRIVE regulator.

APPENDIX 1. Jumper' s location for inputs and operating mode adjustment



		INPUT 1		INPUT 2
MIC/LINE		JP2	JP10	
	OFF	X	X	
	MIC	1-2	2-3	
	LINE	2-3	1-2	
AUDIO INPUTS		JP1		JP5
	DIFF.*	2-3		2-3
	MONO	3-4		3-4
	STEREO	1-2,3-4		1-2,3-4
PHANTOM		JP4		JP7
	0V	X		X
	+ 5V	1-2		1-2
	+ 9V	2-3		2-3
SENS.		JP8		JP9
	0 dB	1-2		1-2
	- 40 dB	X		X
INPUT.RES		JP3		JP6
	15 K	X		X
	600 Ohm	1-2		1-2

* MIC. ONLY

ELUCIDATION:

1-2: connect PIN1 & PIN2
2-3: connect PIN2 & PIN3 jne.
X: no connect

ANNEX B

Installation under the desk

ANNEX C

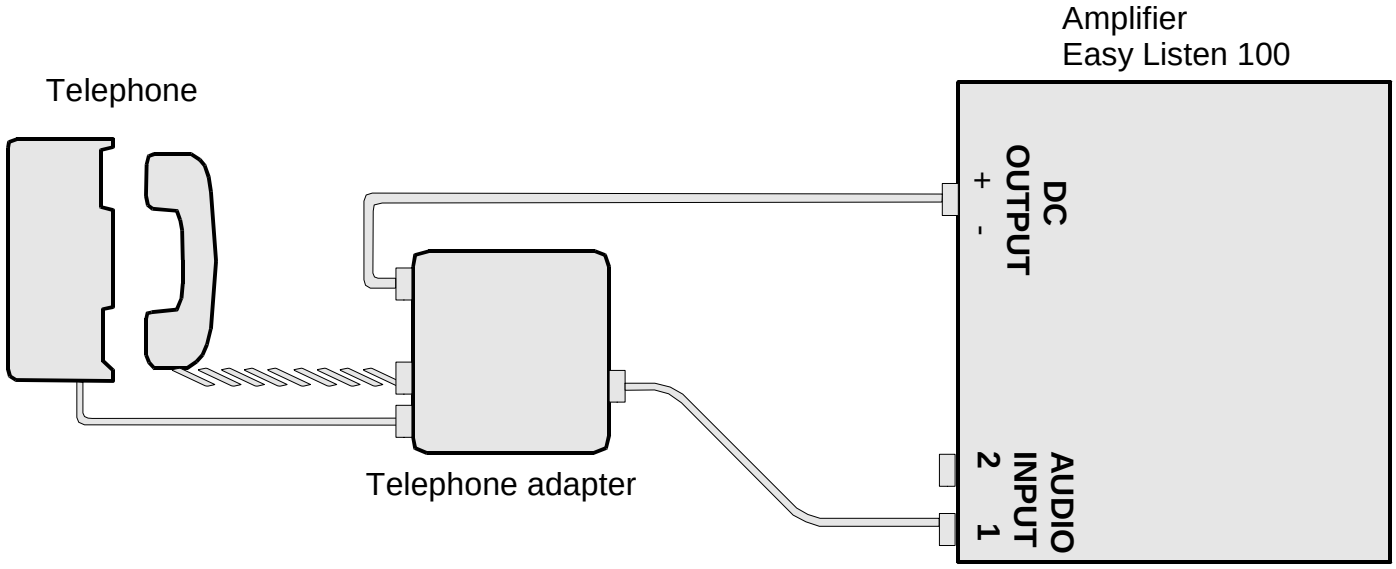


Figure1. Phone adapter connecting diagramm

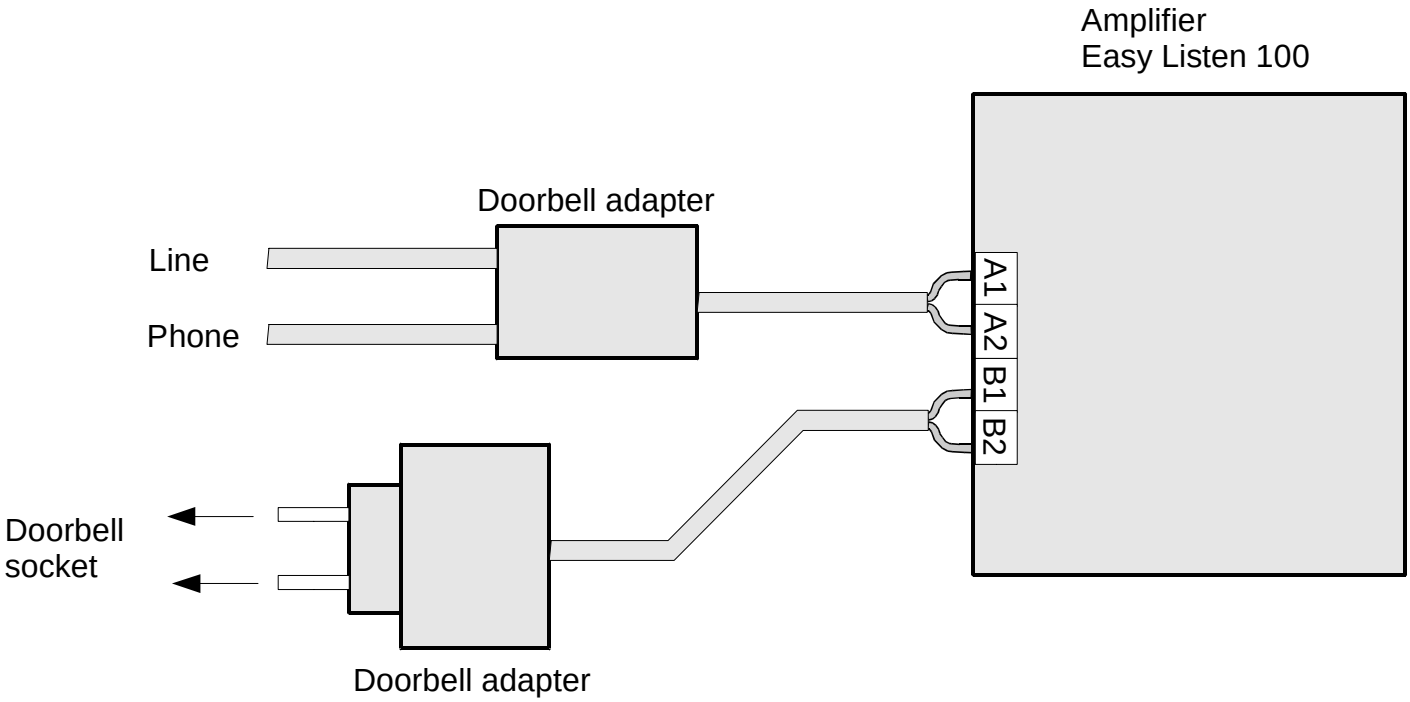


Figure 2 Phone and doorbell adapters connecting diagramm