

ACD-3008 / ACD-3012

DSP Active Line Array speaker



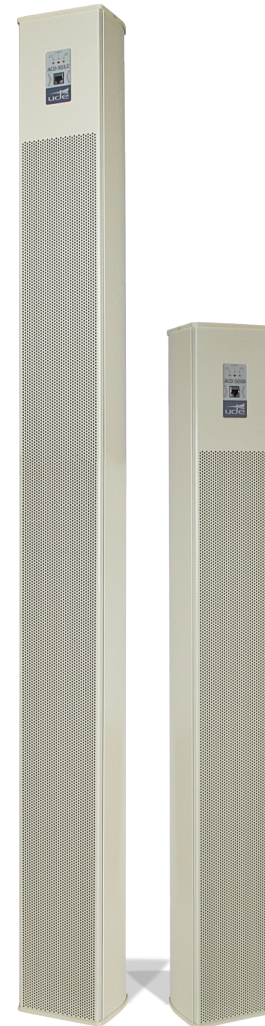
Description

The **ACD-3008 / ACD-3012** has been designed and constructed as a high quality LINE ARRAY with 4" loudspeakers. The new audio algorithms for digital signal processor developed by **UNIÓN DESARROLLOS ELECTRONICOS** and implemented, allow modifying the sound diffusion, adapting the response to the acoustical requirements of the installation.

The line array has an internal DSP and microcontroller where audio signals are processed. The DSP has a 100dB SNR and 50 MIPS. The line array increases new functionalities in comparison with the old passive columns, giving better performance for example in vertical dispersion control and secondary lobes, thanks to the new class D amplifiers reaching 240 W / 360 WRMS.

LINE ARRAY is really useful and versatile for reverberant and complex acoustic installations (like churches, sport centre, big halls, etc.) In the power consumption side the line array has been designed for an optimize consumption (with 3 states: ON, MUTE, ECO) depending on the VOX control is processing.

The unit can be controlled with the **WCD-3000**, which offers real time configuration and save characteristic operation in the internal memory of the ACD-3008 / ACD-3012 column. This is a friendly way to interact and configure in the startup process.



- Uniform coverage within the listening area
- Adjustable sound beam
- Line level (0 dB) input/output. (XLR)
- Suitable for daisy chain instalations
- Input from loudspeakers line (Terminals):
 - High impedance: L100V/L70V
 - Low impedance: 4 – 8 ohms
- Sensitivity adjustment: 0 dB / -3 dB / -6 dB
- VOX detection for automatic power switch.
- Tone control: Bass & treble.
- Volume control.
- 15 band graphic equalizer.
- Speech filter for increasing intelligibility.
- Mute option.
- Use for indoor and outdoor applications.



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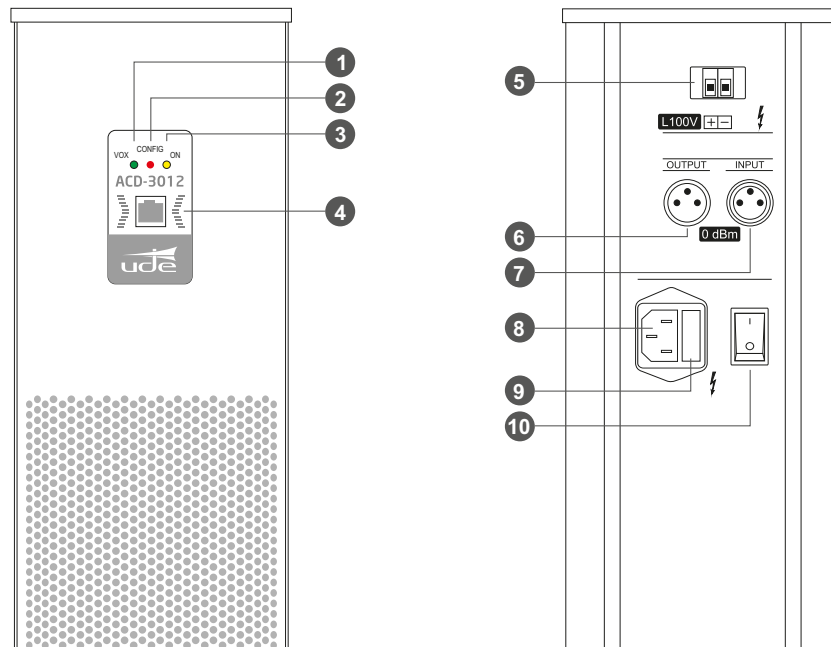
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Rev.2 | 610.486A | 1 / 6

Technical characteristics

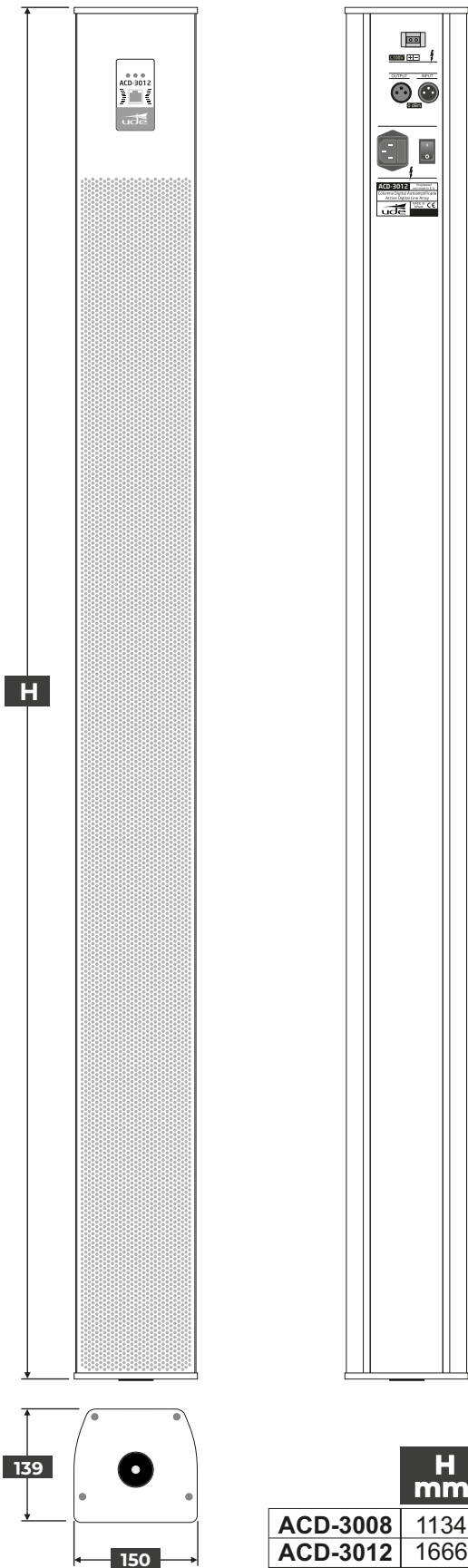
	ACD-3008	ACD-3012
Speakers:	8 x 4"	12 x 4"
Type of speakers	Kapton Cone (specially for outdoor and humid environments)	
Type of amplifier	PWM (Class D)	
Rated power	240W.	360W.
Frequency response	80 Hz - 20.000 Hz	
SPL Level (at 30m)	90 dB SPL	91 dB SPL
Range	>30 meters (*)	>40 meters (*)
Horizontal dispersion	140°	
Sound beam angle adjustment	+/- 45 positions (45°)	
Singal Input / Output	Balanced / Unbalanced	
L100v input	Balanced	
Sensitivity	0 dB / -3 dB / -6 dB	
Communication protocol with WCD-3000	RS-485 - 9600 baud	
Maximum Consumption	400W.	650W.
Consumption (ECO mode)	5W.	
Consumption (MUTE mode)	30W.	
Power supply	230 VAC./ 50-60 Hz.	
Fuse protection	T3,15A.	T5A.
Temperature	Resistance up to 55°C	
Material	Cast aluminium (anticorrosive material)	
Color	Ivory - RAL1015	
Weight	19 Kg.	27 Kg.
Dimensions (mm.)	1134 x 150 x 139	1666 x 150 x 139

(*): depending the aiming angle variation selected and the acoustical conditions.

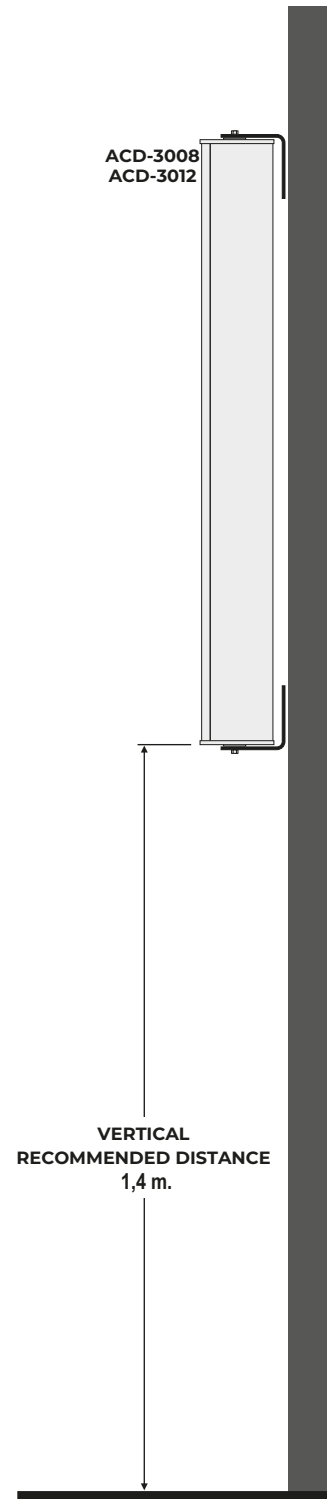


- | | |
|--|---|
| 1 VOX led indicator (100V and 0dB) | 6 Audio line male socket (XLR) – 0dB output. |
| 2 CONFIG - Programming led indicator (when is linked with a WCD-3000) | 7 Audio line female socket (XLR) – 0dB input. |
| 3 ON - Power led indicator | 8 230 VAC supply input with built-in fuse holder |
| 4 RJ-45 socket for WCD-3000 linking. | 9 AC Fuse |
| 5 Euroblock terminal for L100V audio input. | 10 Power switch ON/OFF |

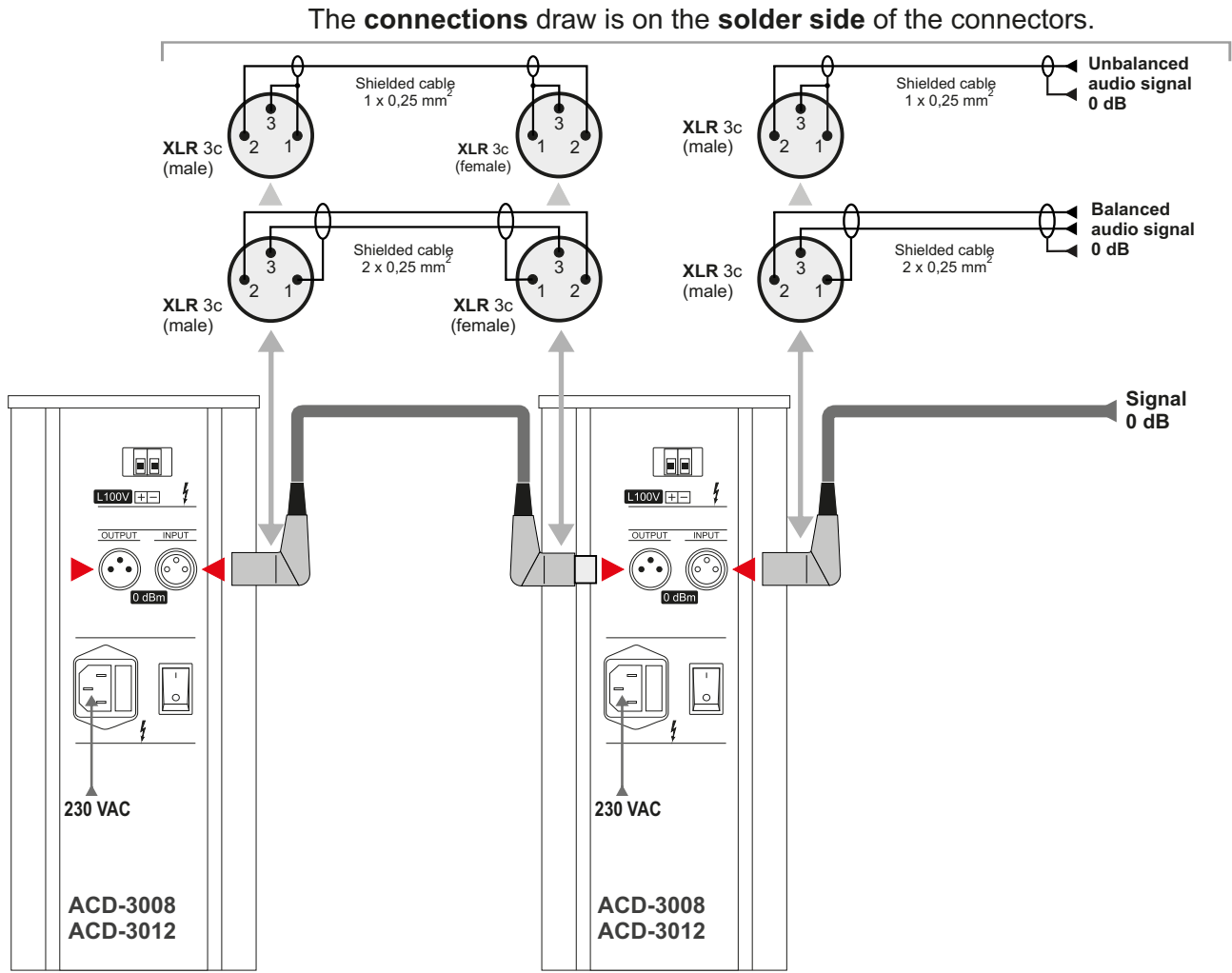
DIMENSIONS (mm.)



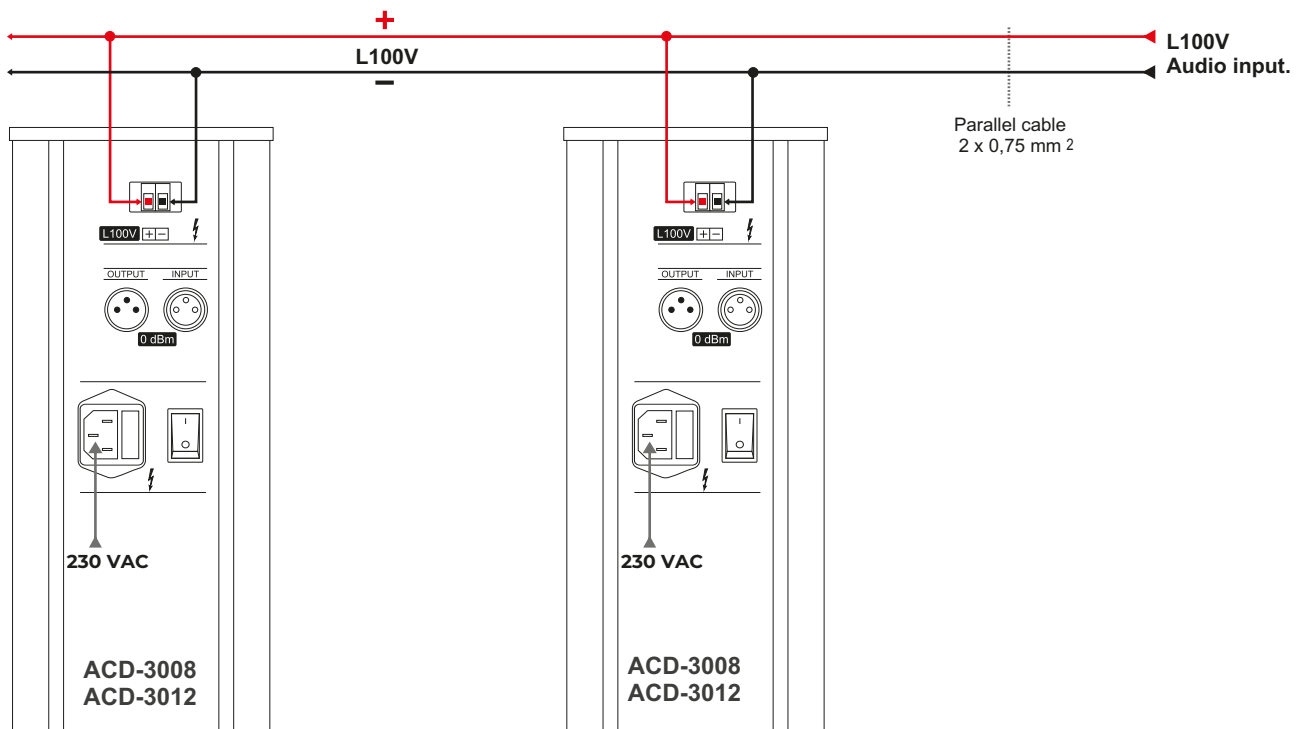
TYPICAL INSTALLATION



OdB Connection

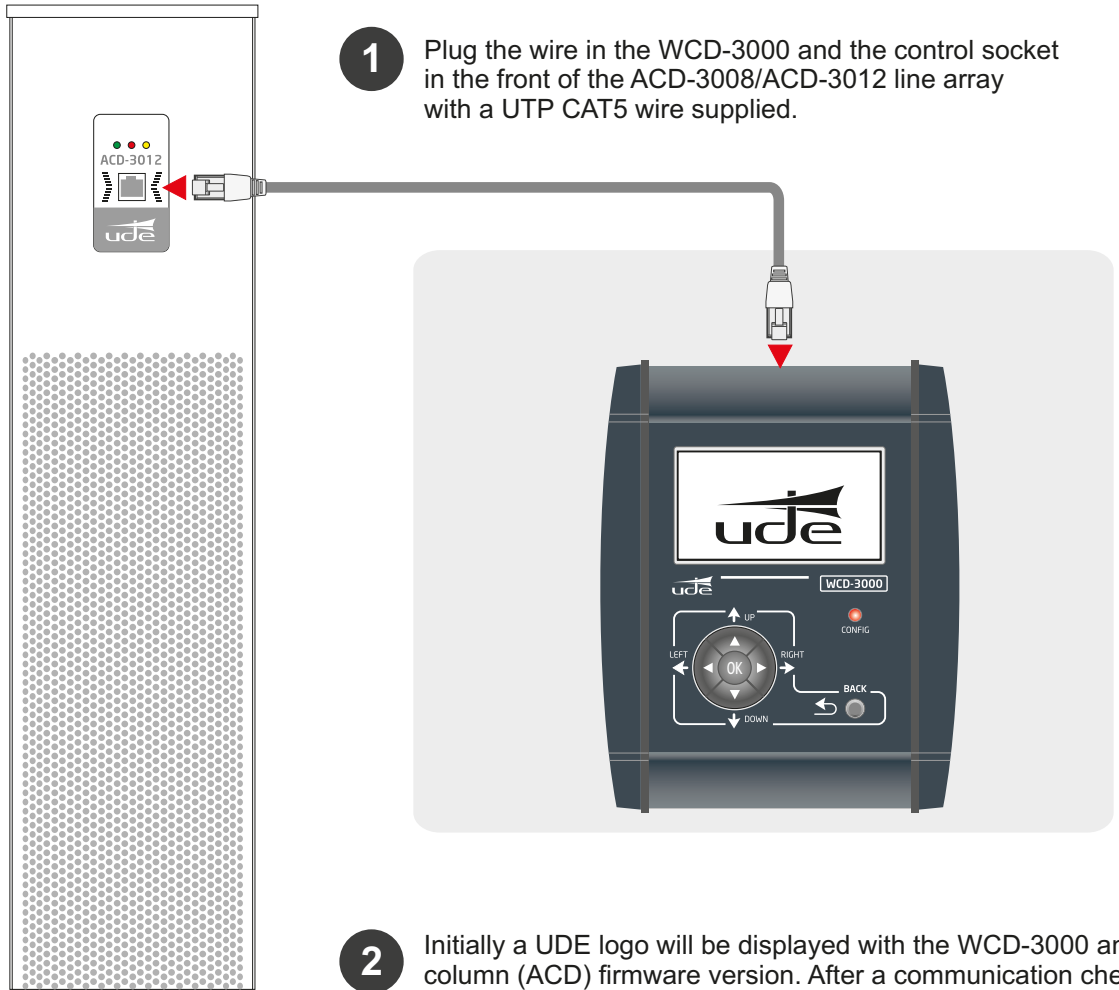


L100V Connection



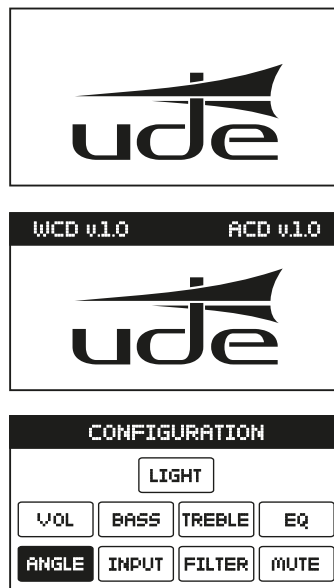
WCD-3000 connection

Once the audio signal and the power supply is connected to the ACD-3008 / ACD-3012, it is recommended to configure with the **WCD-3000 Programmer**.



- 1 Plug the wire in the WCD-3000 and the control socket in the front of the ACD-3008/ACD-3012 line array with a UTP CAT5 wire supplied.

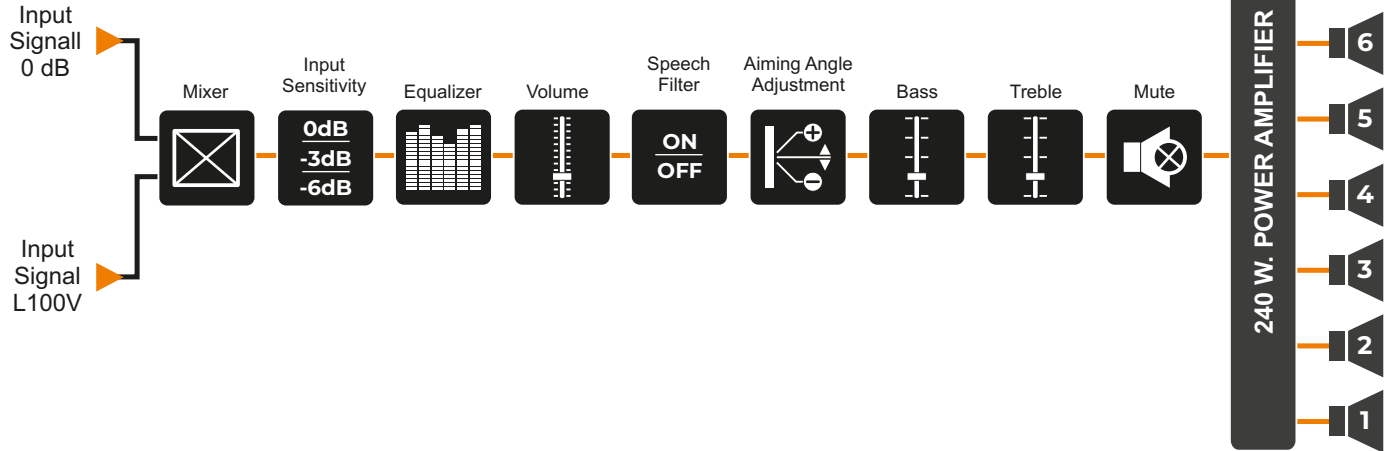
- 2 Initially a UDE logo will be displayed with the WCD-3000 and column (ACD) firmware version. After a communication check and data transfer the CONFIGURATION menu will appear.



When the communication is ready, information led light will keep on and the user is ready to configure all options.

Block diagram

ACD-3008



ACD-3012

