LDx.2 amplifiers from Opus Technologies are next generation induction loop Class-D amplifiers. The two channels amplifiers offer all the functionalities (AGC, MLC, compressor, etc) to ensure room installations up to 2x250m2 (LD1.2), 2x4502 (LD2.2) or 2x1000m2 (LD2.3).

It can equip adjoining rooms (amphitheater, courtroom, etc.) with two magnetic loops installed hairpin or the areas with a metal. This type of installation makes it possible to limit the external radiation of the magnetic field, to guarantee uniformity of coverage and to provide a power which makes it possible to limit the distortions due to the presence of metal.

The LDx.2 series can also be used to equip large areas such as fairgrounds or stadium stands.

Thanks to high frequency switching mode proprietary solutions, the amplifiers are one of the most compact on the market and do not need any active cooling. They include a LEDs indicator fault synthesis on the driver's front panel to control the integrity of both loop and amplifier. Informations can be deported thanks to a dry contact relay.

The high-grade power supply and output voltage capability (48Vpk) ensure outstanding sound quality with high dynamic and extremely low distorsion.

Amplifiers have been developed with strict and rigorous specifications that allow us to offer a 5 year warranty and meet the IEC 60118-4. LD1.0, LD2.0,

LD3.0 amplifiers follow strict specifications required for UL compliance.

- Two channels amplifier
- High frequency switching proprietary mode
- Efficiency up to 92%
- Natural cooling
- AGC: Automatic Gain Control optimized for speech
- 3 inputs wirh selectable gain
- 70/100V priority alarm input
- Phantom supply for microphone
- ✓ Slave amplifier input and output
- ✓ Adjustable metal losses correction
- ✓ ✓ ✓ 1U wall mounting available
- Compact and light
- 5-Year warranty
- LEDs indicator
- Relay fault synthesis
- IEC 62368/UL compliant
- Over current, over temperature and short circuit protections





Coverage

Cover meets the IEC 60118-4 standard

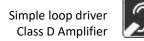
COVER INCESS UNE 120 COLLEGE COLLEGE									
	No metal loss			Moderate metal loss			High metal loss		
Loop	Perimeter loop	Single array in 8	Low overspill*	Perimeter loop	Single array in 8	Low overspill*	Perimeter loop	Single array	Low overspill*
LD1.2	250m² (10x25m)	450m² (15x30m)	450m² (15x30m)	130m² (10x13m)	180m² (10x18m)	450m² (15x30m)	Use Multi Loop Systems LDx.2 and/or Contact us		
LD2.2	450m ² (15x30m)	650m² (20x32,5m)	650m² (20x32,5m)	160m ² (10x16m)	280m² (8x35m)	650m² (20x32,5m)			
LD3.2	1 000m ² (16x62m)	1 400m ² (35x40m)	1 400m ² (35x40m)	250m ² (10x25m)	360m² (10x36m)	1 400m ² (35x40m)			

^{*}with 2 amplifiers





LD SERIES LD1.2/2.2/3.2



Coverage surface	LD1.2	LD2.2	LD3.2	
Single loop	300 m² (10x30m²)	525m² (15x35 m²)	800m² (20x50m²)	
Multiloop	600 m² (15x40m²)	1200 m² (20x60 m²)	2000 m² (20x80m²)	
Power input				
Voltage	100-240Vac, 50-60Hz	100-240Vac, 50-60Hz	100-240Vac, 50-60Hz	
Consumption at idle with 1Ω loop connected	14W at 230Vac and 25°C ambient temperature	14W at 230Vac and 25°C ambient temperature	14W at 230Vac and 25°C ambient temperature	
Nominal power consum Ption at 1Ω	80W	100W	180W	
Maximum power consumption	<500 VA	<600 VA	<700 VA	
Connector	IEC C13	IEC C13	IEC C13	
Audio input				
Input channels with separated adjustable gain	Input 1: 70/100V signal (priority signal) Input 2: Microphone or line Input 3: Microphone or line	Input 1: 70/100V signal (priority signal) Input 2: Microphone or line Input 3: Microphone or line	Input 1: 70/100V signal (priority signal) Input 2: Microphone or line Input 3: Microphone or line	
Phantom supply	Available on microphone inputs: 12V,2 mA	Avaiblable on microphone inputs: 12V, 2 mA	Available on microphone inputs: 12V, 2 mA	
Sensitivity	Microphone: -50 dBLine: -10 dB100V: +40 dB	Microphone: -50 dBLine: -10 dB100V: +40 dB	Microphone: -50 dBLine: -10 dB100V: +40 dB	
Connector	MTSB terminal block and/or Combo Neutrik for input 3	MTSB terminal block and/or Combo Neutrik for input 3	MTSB terminal block and/or Combo Neutrik for input 3	
Audio ouput				
Loop impedance	$0.5~\Omega$ to $3~\Omega$	0.5Ω to 3 Ω	0.5 Ω to 3 Ω	
Max ouput current	2x5 Arms,2x7 Apeak	2x7.5 Arms, 2x10Apeak	2x10 Arms,2x14Apeak	
Max output voltage	34 Vrms, 48 Vpeak	34 Vrms, 48 Vpeak	34 Vrms, 48 Vpeak	
THD	$<$ 0.5% at nominal output current, 1 Ω loop, 1kHz	< 0.5% at nominal output current, 1 Ω loop, 1kHz	< 0.5% at nominal output current, 1 Ω loop, 1kHz	
Bandwidth	80 Hz to 9.5 kHz, -3 dB	80 Hz to 9.5 kHz, -3 dB	80 Hz to 9.5 kHz, -3 dB	







	LD1.2	LD2.2	LD3.2
Audio output	'		<u> </u>
Dynamic	>36 dB	>36 dB	>36 dB
Metal loss correction	0 to 3dB per octave filter	0 to 3dB per octave filter	0 to 3dB per octave filter
Connector	MTSBA terminal block	MTSBA terminal block	MTSBA terminal block
Slave Amplifier			
Input / outputs	One of each	One of each	One of each
Connectors	Jack 6.35 mm	Jack 6.35 mm	Jack 6.35 mm
LEDs indicator			
« Power »	Switched on when module powered	Switched on when module powered	Switched on when module powered
« Protect »	Switched on when signal clippir	d or in case of loop failure	
« Loop »	Switched on when the loop is in working conditions	Switched on when the loop is in working conditions	Switched on when theloop is in working conditions
Vu meters « Input »	Input signal level after adjustement	Input signal level after adjustement	Input signal level after adjustement
Vu-meters « output »	Percentage of maximum current drawn	Percentage of maximum current drawn	Percentage of maximum current drawn
NO/NC fault relay synthesis (contact closed once one fault is detected)			
Detected faults	Too high temperature raised and loop failure	Too high temperature raised and loop failure	Too high temperature raised and loop failure
Maximum electrical rating	0.5A/125Vac or 1A/24Vdc	0.5A/125Vac or 1A/24Vdc	0.5A/125Vac or 1A/24Vdc
Connector	MTSB terminal block	MTSB terminal block	MTSB terminal block
General			
Protections	Over current, over temperature, short circuit	Over current, over temperature, short circuit	Over current, over temperature, short circuit
Operating temperatur	0 to + 45°C	0 to + 45°C	0 to + 45°C
Storage temperature	-30 to +70°C	-30 to +70°C	-30 to +70°C
Size	42x200x215 mm / 1.6x7.9x8.5 inch	42x200x215 mm / 1.6x7.9x8.5 inch	42x200x215 mm / 1.6x7.9x8.5 inch
Weight	1,56kg / 3,43lbs	1,56kg / 3,43lbs	1,56kg / 3,43lbs



