



The new LD1.0, LD 2.0 and LD 3.0 from Opus Technologies range, are a next-generation of one channel amplifiers. The amplifiers offer all the functionalities (AGC, MLC, compressor, etc) to ensure rooms installation up to 250m² (LD1.0), 450m² (LD2.0) or 1000m² (LD3.0).

The amplifiers incorporate a fault synthesis controlling continuously the integrity of both loop and amplifier. The information is displayed on the driver’s front panel and can be deported thanks to a dry contact. Thanks to our high-efficiency Class D technology, our amplifiers consume less and offers a natural cooling.

The amplifiers output voltage is the highest available on the market for this type of amplifier (48 Vpk), ensuring outstanding sound quality without clipping or distortion. The variable frequency of switching class D amplifiers developed by Opus Technologies allows unequaled performances and exceptional sound signal in the most compact device on the market.

The LD.0 can also be used in a low diaphonic phased loop system or an ultra high coverage system with a built-in 90 ° or 0 ° phase shift module (2 amplifiers). Solution used for the equipment of large or adjacent rooms (hairpin systems).

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 follows the strict specifications required for UL compliance.

- Class D amplifier
- The most compact on the market
- Efficiency up to 92%
- Fanless convection
- High output voltage up to 48Vpk
- Voice alarm (100V) Input priority
- Automatic gain control
- Wall mounting available
- Warranty 5 years
- Correction settings due to metal losses
- Monitoring and detection of clipping, loop and temperature
- IEC 62368/UL compliant



Coverage

Cover meets the IEC 60118-4 standard

Loop	No metal loss			Moderate metal loss			High metal loss		
	Perimeter loop	Single array in 8	Low overspill*	Perimeter loop	Single array in 8	Low overspill*	Perimeter loop	Single array	Low overspill*
LD1.0	250m ² (10x25m)	450m ² (15x30m)	450m ² (15x30m)	130m ² (10x13m)	180m ² (10x18m)	450m ² (15x30m)	Use Multi Loop Systems LDx.2 and/or Contact us		
LD2.0	450m ² (15x30m)	650m ² (20x32,5m)	650m ² (20x32,5m)	160m ² (10x16m)	280m ² (8x35m)	650m ² (20x32,5m)			
LD3.0	1 000m ² (16x62m)	1 400m ² (35x40m)	1 400m ² (35x40m)	250m ² (10x25m)	360m ² (10x36m)	1 400m ² (35x40m)			

*with 2 amplifiers

LD SERIES

LD1.0/2.0/3.0

Simple loop driver
Class D Amplifier



	LD1.0	LD2.0	LD3.0
Coverage	250 m² (10*25 m²)	450 m² (15*30 m²)	1000 m² (20*45 m²)
Operating temperature	-10 to 55°C	-10 to 55°C	-10 to 55°C
Storage temperature	-30 to +70°C	-30 to +70°C	-30 to +70°C
INPUT			
Audio inputs	3 inputs: x2 line/microphone, x1 100V	3 inputs: x2 line/microphone, x1 100V	3 inputs: x2 line/microphone, x1 100V
Connector type	Phoenix and/or Combo Neutrik	Phoenix and/or Combo Neutrik	Phoenix and/or Combo Neutrik
Phantom supply	12V 2mA	12V 2mA	12V 2mA
Sensitivity	-50dB microphone, +40dB 100V, -10dB line	-50dB microphone, +40dB 100V, -10dB line	-50dB microphone, +40dB 100V, -10dB line
Priority	100V input, INPUT 1	100V input, INPUT 1	100V input, INPUT 1
POWER SUPPLY			
Type	Integrated	Integrated	Integrated
Voltage	115/230V (automatic) 50/60 Hz	115/230V (automatic) 50/60 Hz	115/230V (automatic) 50/60 Hz
Nominal power consumption at 1 Ohm	25 W	50 W	90 W
Maximum input power	<250VA	<300VA	<350VA
Consumption at rest on connected loop	9W at 230V AC, 1 loop of 1 Ohm connected, at ambient temperature after 30 minutes of stabilization		
AUDIO CHARACTERISTICS			
THD	<0,5% @1ohm / 1KHz / nominal current	<0,5% @1ohm / 1KHz / nominal current	<0,5% @1ohm / 1KHz / nominal current
Automatic gain control	AGC optimized for speech Dynamic > 36dB	AGC optimized for speech Dynamic > 36dB	AGC optimized for speech Dynamic > 36dB
Bandwidth	80 Hz to 9,5 kHz at -3 dB	80 Hz to 9,5 kHz at -3 dB	80 Hz to 9,5 kHz at -3 dB

	LD1.0	LD2.0	LD3.0
OUTPUT			
Loop impedance	0,5Ω à 3Ω	0,5Ω à 3Ω	0,5Ω à 3Ω
Output voltage	34V rms (48V pK)	34V rms (48V pK)	34V rms (48V pK)
Peak current	8A pK	11A pK	15A pK
RMS current	5A rms	7A rms	10A rms
Slave output	0° or 90° phase shift	0° or 90° phase shift	0° or 90° phase shift
ADDITIONAL FUNCTIONS			
LED display	« Power », « Protect », « Clip », « Loop »	« Power », « Protect », « Clip », « Loop »	« Power », « Protect », « Clip », « Loop »
Metal loss correction	0 to 3 dB per octave	0 to 3 dB per octave	0 to 3 dB per octave
Relay	NO/NC fault relay 0,5A/125Vac, 1A/24VDC	NO/NC fault relay 0,5A/125Vac, 1A/24VDC	NO/NC fault relay 0,5A/125Vac, 1A/24VDC
DIMENSIONS (MM)			
HxLxD	42 x 200 x 215 mm	42 x 200 x 215 mm	42 x 200 x 215 mm
Weight	1,48 kg	1,48 kg	1,48 kg

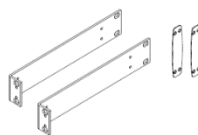
RC

Copper tape with 1 conductor designed for induction loops. 1x1,8 mm².



OP-R

Complete kit for wall mounting or 1 or 2 units of the LD series in a 19" rack.



C10-RC

Terminal block for RC copper foil.

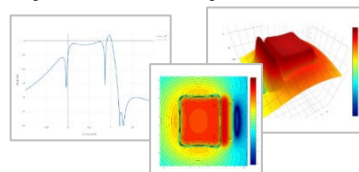


OP-FSM-02

Tester and magnetic field meter in accordance with the IEC 60118-4 specification. Supplied with an OP-778 headset.



Opus Smartloop



The loop simulation software developed by Opus guarantees technical studies that comply with the EN60118-4 standard.