

LD SERIES

LD1.0/2.0/3.0

Simple loop driver
Class D Amplifier



The new LD1.0, LD 2.0 and LD 3.0 in the Opus Technologies family are a next-generation perimeter magnetic loop amplifiers. The amplifiers offer the necessary 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 that controls continuously the loop and the amplifier. The information is displayed on the front panel and can be deported thanks to a dry contact. Due to the high-efficiency Class D technology, amplifiers consume less and have natural cooling.

The amplifiers output voltage, the largest available on the market for this type of amplifier, ensures outstanding sound quality without clipping or distortion. The variable frequency of switching class D amplifiers developed by Opus Technologies allows unparalleled performance in the smallest case size on the market and an exceptional sound signal.

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 rooms or adjoining 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 norm.

- 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



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

	LD1.0	LD2.0	LD3.0
INPUTS			
Audio inputs	3 inputs: x2 Ligne/microphone - x1 100V		
Type	Phoenix and/or Combo Neutrik		
Power supply	12V 2mA		
Sensitivity	-50dB micro, +40dB 100V, -10dB ligne		
Slave input	6.35mm Jack plug.		
Priority	100V input		
POWER SUPPLY			
Type	Integrated		
Voltage	115/230V (automatic) 50/60 Hz	230V (optionnal 120V) 50/60 Hz	
Power	200VA	300VA	
Consumption	6W		
AUDIO CHARACTERISTICS			
Metal loss	0 to 3 dB by octave		
Automatic Gain Control	AGC optimized for speech Dynamic > 36 dB		
Bandwidth	80Hz to 9.5kHz		
Phase change	Phase module (90° or 0°)		
OUTPUT			
Loop impedance	0.5 Ω to 3 Ω		
Output voltage	34 Vrms (48Vpk)	35V rms (50V pK)	
Peak current	8A	11A pK	15A pk
RMS current	5Arms	7A rms	10A rms
ADDITIONAL FUNCTIONS			
Defaults	LED display "protect"		
Verification (lack of synthesis)	DC current too high - open loop - thermal protection		
Relay	NO / NC fault relay		
Cooling	Natural cooling		
IP class	IP 20		
Frequency response	40 – 9 000 Hz		
DIMENSIONS (MM)			
HxLxD	42 x 200 x 215 mm		
Weight (with the box)	1.5 kg (1.9 kg)		

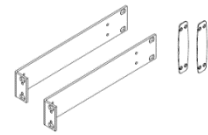
RC

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

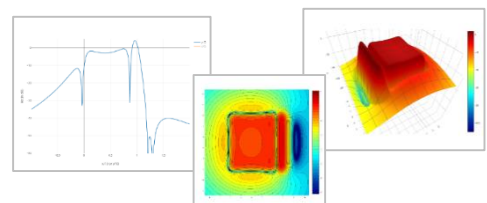


OP-FSM-02

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