

**GOLDMUND MIMESIS 28  
POWER AMPLIFIER**

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## **USER MANUAL**

### **CONGRATULATIONS**

Thank you for purchasing the Goldmund Mimesis 28.  
You have acquired the best Analogue Power Amplifier ever made for professional and domestic uses. Please take some time to read this manual. It may provide you with useful information to make your pleasure of listening to the Mimesis 28 even higher.

### **ATTENTION :**

No connection or manipulation must be done before reading those instructions.  
Damage of the amplifier may result if the following instructions are not consciously understood and applied.

## **1 - UNPACKING**

You will find in the GOLDMUND MIMESIS 28 box :

- The amplifier
- The power cord
- This manual
- Spare fuses.

Please keep the packaging in case you need to transport the amplifier at a later date or if you have to send it for maintenance.

## **2 – CHOICE OF AMPLIFIER LOCATION AND COOLING**

The GOLDMUND MIMESIS 28 amplifier, as all high quality amplifiers generates a large amount of heat.

It is mandatory to allow a proper cooling of the heat sinks. Avoid any location which is not properly vented and avoid to put on top of it equipment sensitive to temperature.

Due to its weight, and to maximize the effect of the built-in "Mechanical Grounding" construction, the MIMESIS 28 is better located on the floor. But other very strong supports can also be used, if they offer a very rigid transmission with the floor.

## **3 – LINE VOLTAGE ADJUSTMENT**

A voltage selection is provided inside the amplifier.

If your line voltage is not adapted to the voltage indicated on the serial plate of the amplifier, please consult your local GOLDMUND dealer for internal adjustment.

**ATTENTION :** On the 220V position, the GOLDMUND MIMESIS 28 amplifier will function properly for main line voltage in between 200V and 240V. On the 110V position, the main line must deliver between 105 and 125V. If your main line is usually out of these tolerances, please consult your GOLDMUND dealer.

Please check the value of the main line fuse. This fuse is located on the back panel of the amplifier, above the two power cord receptacles.

Use a 5A delayed fuse for 220V and a 8A delayed fuse for 110V.

## 4 - CONNECTIONS

Connect the power cord to the back of the amplifier and plug it in the nearest wall plug. Use only a 3 lugs grounded plug, for safety reasons. To get the best sound of the amplifier, avoid any multiple plug or extension cord.

NOTE : See below for the proper selection of the power cord receptacle, depending of the line phase.

Connect the interconnects between the preamp and the power amp. You may either use the RCA female sockets or the XLR. The XLR sockets, especially useful in professional installations, are wired as follows :

- 1 - Grounding, Shielding.
- 2 - Hot.
- 3 - Cold.

**Attention : if you want to use a symmetrical 4 wire cable, always maintain the ground/earth switch to "Link" (lever to the black post) or you may destroy your amplifier.**

Connect the speaker cables to the red and black terminals accessible in the back of the amplifier.

You may notice that the ground of the input plug and the black speaker terminal are the same polarity. The amplifier is non-inverting in phase.

## 5 – AMPLIFIER CONTROLS

On the front plate of the GOLDMUND MIMESIS 28 amplifier you will find only two POWER keys.

The two POWER keys have to be activated simultaneously to power the amp on.

This security feature is provided to avoid any fortuitous power on or power off.

When the two keys are pressed simultaneously, the amp switches on and the center green led lights on showing the amp is ON.

The amplifier is immediately operative, without delay.

The amp may be powered off by pressing simultaneously the two POWER keys at any time. The green led will fade slowly, indicating discharge of the filtering capacitors.

## **6 – SOUND QUALITY OPTIMIZATION**

### - Warm-up sonic effect.

If the power amplifier has been powered off for some time, the optimum sound quality is only reached after several minutes. The critical circuits have to warm up to around +55 degrees Celsius (+131 degrees Fahrenheit). When the amplifier has been used recently, the optimum is reached after only 10 to 15 minutes.

### - Speaker polarity.

Even if you have a phase inverter on your preamplifier (as on the GOLDMUND MIMESIS 2 or MIMESIS 22), and even if you have carefully selected the proper line phase (see in next paragraph), there is a possibility to again increase the sonic quality of your speakers by reverting the polarity of the speaker cable amp termination. But since the line phase and the speaker polarity interfere to each other, you have to experiment carefully all the combinations before picking the right one. If your preamp has an absolute phase inverter, this will interfere too. If it has not, don't forget the result will depend of the source, most of the record and CD being recorded without care for the absolute phase. Be patient...

### - Main line phase inversion.

To select the proper phase, you have to select, by trying, one of the two power cord position, using a plug adapter.

We recommend that you proceed carefully to try this. You must do it in combination with the speaker polarity and/or with absolute phase switching to be sure of the result.

## **7 – SAFETY FEATURES**

The GOLDMUND MIMESIS 28 amplifier provides sophisticated features to protect the amplifier and the speakers against all mishandle or component failure. However precautions must be taken to avoid problems with a very high power amplifier.

### - Protection against DC.

The MIMESIS 28 is a DC-coupled amplifier. If the associated preamplifier is badly designed or defective (often true for the tube preamps), the speakers could be damaged. The DC protection circuit of the MIMESIS 28 is totally immune to any sonic effect but will protect the speakers if such a malfunction occurs.

#### - Protection against HF oscillations.

In the same way, the speaker must be protected against a large amount of high frequency oscillation if present to avoid any danger for the tweeters, even if these frequencies remain unnoticed.

The amplifier is by itself extremely stable. However some mishandling must be avoided in order to avoid any oscillation :

- Never plug an input cable on a power amp when it is turned on.
- Be careful to use only very high quality interconnects. If the ground connection become loose, there is a big danger of oscillation. Warranty is voided if this occurs.
- Never run the input and output (speaker) cables parallel.

#### - Overheating protection.

If for any reason (malfunction, too high level, too low load impedance) the temperature of one channel reaches a dangerous level, the MIMESIS 28 may be damaged. If the temperature rises too high, switch the amp off for quite some time. It is strongly recommended to try to detect why the temperature has reached such a level before operating the amp again.

#### - Protection against short-circuits.

If one output is short-circuited by accident and the current becomes too high, the AC fuse may blow.

To replace the defective fuse, switch the amplifier off first. Then open the small drawer located on the AC cord receptacle. The fuses are located inside. Change the defective fuse.

Then switch the power on if the short-circuit has been detected and removed.

To avoid the fuses to blow, avoid to short-circuit the output terminals accidentally. Always switch OFF the amp before trying any manipulation of the speaker cables. There is no risk to leave the speaker terminals unconnected when the amp is on.

## **8 - MAINTENANCE**

The GOLDMUND MIMESIS 28 amplifier usually requires no maintenance. For audio purists who want to keep their amp sounding as new, we only recommend that after a year or two, you have a technician or an official GOLDMUND representative readjust the DC offset. This very simple operation takes only two minutes and will give you the safety of long years of unmatched sound quality.

To clean your MIMESIS use only a soft cloth slightly wet. Always turn the power off before cleaning your amplifier.

## **TECHNICAL DATA :**

### **POWER**

- Nominal power : 2 x 200 W RMS (2 - 8 Ohms).  
2 x 100 W RMS (1 - 16 Ohms).
  - Maximum instantaneous power : > 2 x 400 W RMS (8 Ohms).
  - Maximum voltage swing : 62 V peak.
  - Maximum current swing : 28 A peak.
- These figures for both channels driven.

### **FREQUENCY RESPONSE**

These figures are valid for the circuit alone, at any level between 0 and nominal power.

- +/- 0.1 dB, 0 - 300 kHz, +/- 1 dB, 0 - 800 kHz.
- +/- 3 dB, 0 - 2 MHz.

### **INPUT SENSITIVITY**

- Nominal level : 1.45 V RMS.
- Voltage Gain : 29
- Input impedance : 52 kOhms.

### **GROUP DELAY**

- Propagation delay < 140 ns stable with frequency from DC to 200 kHz.

### **DISTORTION**

Figures valid for all levels from 0 to 26 V / 8 Ohms :

- Dynamic : TID < 0.01 % (- 80 dB).
- Static : THD < 0.01 % (- 80 dB).

### **SPEED**

- Slew rate : > 200 V/us
- Rise time : < 300 ns.

### **CROSSTALK**

- Separation : > 110 dB between channels. Isolated ground.

### **NOISE**

- Signal-to noise ratio : > 115 dB (0.01 Hz - 1 Mhz).
- Weighted ASA A : > 130 dB.

### **OPERATING TEMPERATURE**

- Room temperature : -30 to +40 degrees Celsius  
(-22 to +104 degrees Fahrenheit).
- Internal temperature : +45 to +65 degrees Celsius  
(+113 to +149 degrees Fahrenheit).

#### POWER SUPPLY

- Nominal line voltage : 117, 234 V (switchable).
- Input voltage range : +/- 10 %.
- Maximum power consumption : 1200 W.
- Power used in standby : 100 W.
- 4 toroidal transformers, 4 separated power supply.

#### GROUNDING

- Separated ground for each channel.
- Floating chassis connected to mains earth.
- Switch for optionally connecting both.

#### SAFETY FEATURES

- AC voltage fuse : min 10 A slow-blow for 220 V / 16 A slow-blow for 110 V.

#### FRONT PANEL CONTROLS

- 2 POWER keys.
- Protection against accidental power off.

#### REAR PANEL CONNECTORS AND CONTROLS

- Power cord: universal socket 3 lugs.
- Main fuse (16A slow-blow 110V / 10 A slow-blow 220 V).
- Green-yellow AC earth binding post.
- Black signal ground binding post.
- Output speaker 2 X 5 ways post.
- Input connector RCA (right and left).
- Input connector XLR for balanced input (right and left).

#### SIZE AND WEIGHT

- 44 cm (17") W x 44 cm (17") D x 17 cm (7") H.
- Weight : 45 kg net.

#### WARRANTY

- 3 years parts and labor.