

Modul 3

Transformer Isolator



User Manual

Preface

Thank you for purchasing the **modul 3**. The **modul 3** can be used to electrically isolate an unbalanced audio signal from your Eurorack and feed it symmetrically into a mixing console or other audio devices. To prevent ground loops and thus “hum”, the ground of the Eurorack can be separated from the ground of the signal output. A high-performance audio transformer from Oxford Electrical Products Ltd. is used for signal transmission. This transformer guarantees loss-free transmission over a wide frequency range so that the sound quality always remains optimal. If the level from the Eurorack is too high, the **modul 3** also offers the option of adjusting it individually to the input level of the connected mixing console using an integrated potentiometer.

To be able to use the **modul 3** as quickly and effectively as possible, you should take the time to read this manual thoroughly.

The Manikin team hopes you enjoy reading it.

Note

Manikin Electronic accepts no responsibility for errors that may occur in this operating manual. The contents of this manual are subject to change without notice. Every care has been taken in the preparation of this manual to avoid errors and inconsistencies. Manikin Electronic makes no warranties for this manual other than those required by commercial law.

No part of this manual may be reproduced without the permission of the manufacturer.

Manikin Electronic
Lipaer Straße 5
12203 Berlin
Deutschland
WEEE-Reg.-Nr. DE 35420992

Inhaltsverzeichnis

1. Introduction.....	1
2. Initial operation.....	3
3. Mode of operation.....	4
4. Controls & Connectors.....	4
5. Basic operation.....	5
6. Technical Data.....	6
7. Disposal.....	7

1. Introduction

1.1 General safety instructions

Please read the following safety instructions carefully! They contain some basic rules for handling electrical appliances. Please read all the instructions before using the appliance.

1.2 Suitable installation location

- Only operate the appliance in closed rooms.
- Never operate the appliance in damp environments such as bathrooms, laundry rooms or swimming pools.
- Do not operate the device in extremely dusty or dirty environments.
- Ensure an unobstructed air supply on all sides of the appliance. Do not place the appliance in the immediate vicinity of heat sources, such as radiators.
- Do not expose the appliance to direct sunlight.
- Do not expose the appliance to strong vibrations.

1.3 Power connection

The **module 3** is a passive module that does not require a power supply from the Eurorack.

1.4 Operation

- When operating the **modul 3**, ensure that it is installed correctly in your Eurorack.
- Make sure that no objects get into the module. If this does happen, switch off the device, pull out the mains plug and then contact a qualified specialist dealer.

1.5 Care

- Do not disassemble the module. Repairs and maintenance may only be carried out by qualified specialist personnel. There are no user-serviceable parts in the module. Disassembling the module will also invalidate your warranty.
- Only use a dry, soft cloth or brush to clean the front panel. Do not use alcohol, solvents or similar chemicals that could damage the surfaces.

Intended use

The modul 3 is intended exclusively for the use of analog audio signals. Any other use is not permitted and excludes any warranty claims against Manikin Electronic.

2. Initial operation

2.1 Scope of delivery

When unpacking, please check that all parts are present. If anything is missing, please contact your Manikin Electronic specialist dealer immediately.

The scope of delivery of the **modul 3** includes:

- the **modul 3**
- this user manual
- 4 mounting screws for mounting the **modul 3** in the Eurorack

2.2 Installation in the Eurorack

The **modul 3** has been developed for use in a Eurorack. All cables and screws required for installation and operation are included in the scope of delivery.

How to install the **modul 3** in your Eurorack:

Make sure that your Eurorack is disconnected from the power supply.

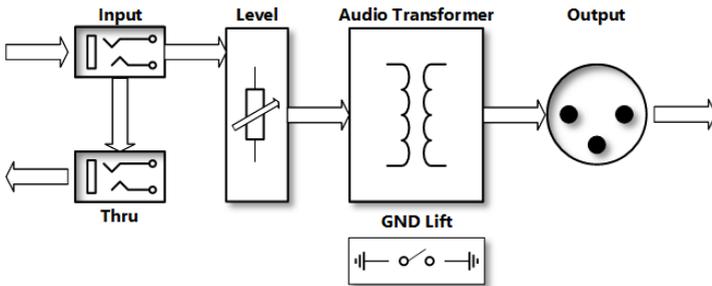
Now install the **modul 3** in your Eurorack at a suitable location using the screws supplied.

Now switch the power supply to your Eurorack back on.

3. Mode of operation

The **modul 3** is a highly efficient audio isolator similar to a DI box. An asymmetrical audio signal generated in the Eurorack is balanced using a transformer and output at the output of the **modul 3** on an XLR socket. To prevent ground loops and thus “hum”, the ground of the Eurorack can be separated from the ground of the signal output using a ground lift switch.

The block diagram illustrates the signal flow:



4. Controls & Connectors



- 1 : Signal Output (XLR)
- 2 : Ground Lift Switch
- 3 : Level Potentiometer
- 4 : Signal Input
(Phone Jack / mono 3,5mm)
Signal Thru:
(Phone Jack / mono 3,5mm)

5. Basic operation

5.1 Establishing all necessary connections / Functionality

You should first turn the level potentiometer all the way to the left to prevent high output levels. This could damage any connected devices. Connect the desired audio signal from your Eurorack to the input (4, Input). You can use a normal 3.5 mm patch cable for this. The “Thru” socket can be used to patch the input signal to other modules in the Eurorack. Connect your mixing console, active loudspeakers or similar to the signal output (2, Output). You can use an XLR cable for this.

By turning the level potentiometer (3), you can adjust the output level of the **modul 3** to the input conditions of your mixing console, active loudspeaker or similar. The ground lift switch (2) makes it possible to disconnect the signal output (2) from the ground potential of your Eurorack, thus preventing the occurrence of ground loops and the “humming” often associated with it.

! Attention !

Very high signal levels can occur in the Eurorack, which can lead to overloading and possibly damage the input stages of connected devices such as mixing consoles, active loudspeakers or similar. Always pay attention to the level setting of the modul 3.

6. Technical Data

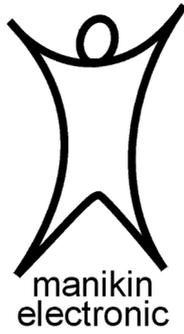
Technology	: Audio Transformer (Oxford Electrical Products Ltd.)
Inputs	: 1x 3,5mm Phone Jack (mono)
Outputs	: 1x XLR-Jack 1x 3,5mm Phone Jack (mono)
Power Supply	: passive
Dimensions (W/H/D)	: 8HP / 3U / 35mm
Weight	: 170g

7. Disposal

Think of our environment - dispose of defective devices at a suitable collection point in accordance with legal regulations. The sticker with the crossed-out dustbin on this product indicates that this product must not be disposed of with normal household waste.

To prevent possible harm to the environment or human health and to ensure that it is recycled in an environmentally sound manner, this product must not be disposed of with household waste. For information on disposal facilities, please contact your local authority or the store where you purchased this product.





C 2025 by Manikin Electronic
All rights reserved
www.manikin-electronic.com