

[Manuals.plus](#) /

› [Erica Synths](#) /

› Erica Synths Pico MScale - Interface Modular Synthesizer User Manual

Erica Synths Pico MScale

Erica Synths Pico MScale - Interface Modular Synthesizer User Manual

Brand: Erica Synths | Model: Pico MScale

1. PRODUCT OVERVIEW

The Erica Synths Pico MScale is a compact and precise voltage scaling unit designed for seamless integration between different modular synthesizer formats, specifically adapting the control voltage standards. It is particularly useful for interfacing devices like the Mother-32 with standard Eurorack modular systems.





Image: Front panel of the Erica Synths Pico MScale module, showing the 'MScale' branding, 'IN' and 'OUT +5V' jacks at the top, and 'IN' and 'OUT -5V' jacks with 'pico' branding at the bottom. The module is dark with white text and silver jacks.

This module addresses the voltage differences between various modular systems. For instance, while the Mother-32 operates optimally with a -5V to +5V range for its 1V/octave input, the common Eurorack standard is 0V to +10V. The Pico MScale intelligently adjusts these ranges, ensuring proper communication and control between your instruments.

2. SETUP

2.1 Unpacking

Carefully remove the Pico MScale module from its packaging. Ensure all components are present:

- Erica Synths Pico MScale module
- 10-pin ribbon power cable
- Mounting screws

2.2 Installation in Eurorack Case

The Pico MScale is a Eurorack-compatible module. Follow these steps for proper installation:

1. **Power Off:** Ensure your Eurorack case's power supply is completely turned off before installing or removing any modules.
2. **Locate Space:** Find an available 3HP (HP = Horizontal Pitch) space in your Eurorack case.
3. **Connect Power:** Connect the included 10-pin ribbon cable to the power header on the back of the Pico MScale module. Ensure the red stripe on the ribbon cable aligns with the -12V pin on both the module and your Eurorack bus board. Incorrect power connection can damage the module.
4. **Mount Module:** Carefully align the module with the rail nuts in your case and secure it using the provided mounting screws. Do not overtighten.
5. **Power On:** Once securely installed and powered, you can turn on your Eurorack case's power supply.

3. OPERATING INSTRUCTIONS

3.1 Voltage Scaling Function

The Pico MScale features two independent scaling sections:

- **Top Section (OUT +5V):** This section adds 5V to the incoming control voltage. It is ideal for converting a -5V to +5V signal (e.g., from a Mother-32) to a 0V to +10V signal, which is standard for many Eurorack modules.
- **Bottom Section (OUT -5V):** This section subtracts 5V from the incoming control voltage. It is useful for converting a 0V to +10V signal (e.g., from a Eurorack sequencer) to a -5V to +5V signal, suitable for devices like the Mother-32.

3.2 Connecting Devices

Use standard 3.5mm (1/8 inch) patch cables to connect your devices to the Pico MScale.

- **Mother-32 to Eurorack:** Connect the 1V/octave CV output from your Mother-32 to the 'IN' jack of the **top section**. Connect the 'OUT +5V' jack to the 1V/octave input of your Eurorack oscillator or other CV-controlled module.
- **Eurorack to Mother-32:** Connect the 1V/octave CV output from your Eurorack sequencer or keyboard to the 'IN' jack of the **bottom section**. Connect the 'OUT -5V' jack to the 1V/octave input of your Mother-32.

Experiment with different control voltages and destinations to understand the full capabilities of the Pico MScale in your setup.

4. TECHNICAL SPECIFICATIONS

Specification	Value
Manufacturer	Erica Synths
Model	Pico MScale
MS ID	SYN0006209-000
Module Width (TE / HP)	3 HP
Depth	25 mm
Current Draw (+12V)	6 mA
Current Draw (-12V)	5 mA
Interface Function	Converter
Item Weight	72.6 g

Specification	Value
Product Dimensions	20.83 x 6.6 x 5.46 cm
Color	Multicolor
Connector Type	10-pin ribbon cable
ASIN	B097RY4SGG
First Available Date	March 25, 2025

5. MAINTENANCE

The Erica Synths Pico MScale is a robust module designed for long-term use. Minimal maintenance is required:

- **Cleaning:** Use a soft, dry cloth to wipe the module's surface. Avoid using liquid cleaners or abrasive materials, as they can damage the finish or internal components.
- **Storage:** When not in use, store the module in a dry, dust-free environment, ideally within a Eurorack case or a protective bag.
- **Handling:** Always handle the module by its edges to avoid touching the electronic components on the back.

6. TROUBLESHOOTING

If you encounter issues with your Pico MScale, consider the following common troubleshooting steps:

- **No Power/Module Not Lighting Up:**
 - Ensure your Eurorack case's power supply is on and functioning correctly.
 - Verify the ribbon cable connection. The red stripe must align with the -12V pin on both the module and the bus board.
 - Check if other modules in your case are receiving power.
- **Incorrect Voltage Scaling:**
 - Confirm you are using the correct 'OUT' jack (+5V or -5V) for your intended voltage conversion.
 - Ensure the input signal is within the expected range for the module's operation.
- **No Audio/CV Signal:**
 - Check all patch cable connections to ensure they are fully inserted and connected to the correct inputs/outputs.
 - Test the patch cables with other modules to rule out faulty cables.

If problems persist after following these steps, please contact Erica Synths customer support or your authorized dealer for further assistance.

7. WARRANTY AND SUPPORT

Erica Synths products are designed and manufactured to the highest quality standards. For information regarding warranty coverage, technical support, and service, please refer to the official Erica Synths website or contact their customer support directly. Keep your proof of purchase for warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

<https://manuals.plus/asin/B097RY4SGG>

More documents and user manuals: <https://manuals.plus/>