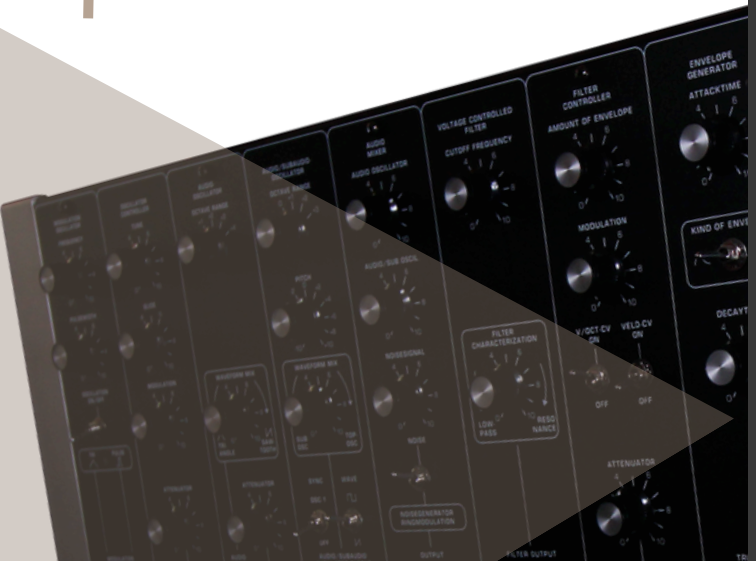
PPG SYNTHESIZER 1002

After decades of being forgotten, the PPG Synthesizer 1002 was spectacularly brought back to life through the deciphering and reconstruction of Wolfgang Palm's handwritten original drawings. Utilizing state-of-the-art technology and a deep respect for the original design, a team of enthusiasts succeeded in perfecting this legendary synthesizer in a new edition, thus rewriting a piece of synthesizer history.

> The PPG Synthesizer 1002 is part of the early history of synthesizer development in Germany and reflects Wolfgang Palm's technical expertise and spirit of experimentation. It laid the foundation for later innovations in the field of hybrid and digital synthesizers.



The Reissue

- Analog Signal Processing
- 2 Temperature-Stabilized VCOs
- Diverse Modulation Possibilities
- Voltage-Controlled 24dB PPG Low-Pass Filter
- Voltage-controlled amplifier
- Modulatable LFOs with triangle and pulse waveforms
- New: Ring modulator and sub-oscillator for an expanded sonic palette
- Simple Operation
- Great Vintage Sound

Order now

www.ppgsynth.com

PPG

2025 EDITION



The Team



Wolfgang Palm

Development



Cornel Hecht

Reconstruction



Ingmar Koch

Distribution/Sales

What We Do?

01 Modernization of the circuits while maintaining the characteristic sound and optimizing the hardware to today's standards.

02 Positioning the 1002 as an exclusive reissue through selected channels to musicians and collectors.

03 Seamlessly merging authenticity with innovation, we position the 1002 as a coveted premium product.

Why a Reissue?

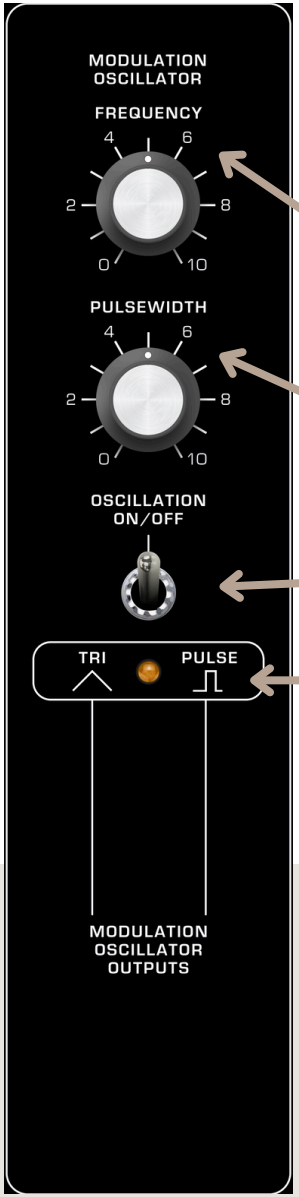
A reissue of the PPG 1002 remains attractive even today because it offers a unique combination of history and modern technology:

- The 1002 represents the distinctive analog sound that is highly sought after in modern music production.
- Through careful reconstruction and modern manufacturing standards, the reissue combines the charm of the original with reliability and longevity, making it a high-quality premium product.



The modules

Modulation Oscillator

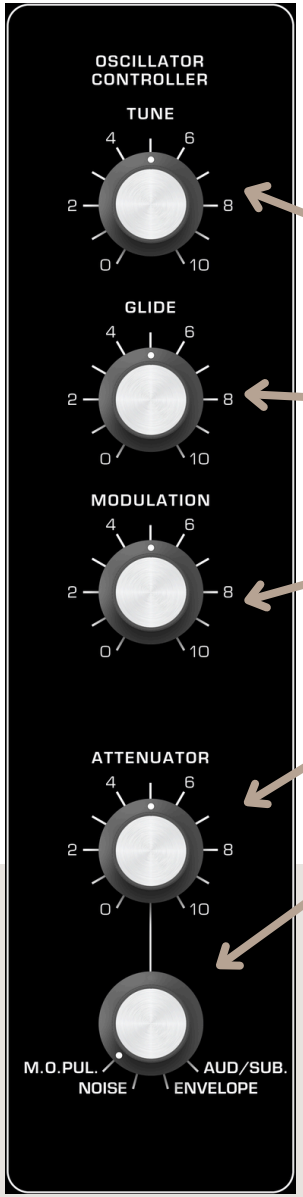


The Modulation Oscillator - a control oscillator for modulations

- Control for the oscillator's frequency
- Control for the pulse wave's duty cycle
- Switch to start or stop the oscillator
- Triangle and pulse waveforms for modulations

The modules

Oscillator Controller



Controls both tone oscillators

- Tuning control
- Glissando control
- Control for modulating both tone oscillators (vibrato, etc.)
- Attenuator for adjusting an additional modulation signal
- Multicontrol switch for selecting the modulation signal

The modules

Audio Oscillator



The Audio Oscillator is the first tone oscillator in the 1002 Synthesizer.

- Octave switch
- Control for adjusting the timbre and waveform
- Attenuator for adjusting an additional modulation signal
- Multicontrol switch for selecting the modulation signal

The modules



Audio/Subaudio Oscillator

The Audio/Subaudio Oscillator is a combination of a tone and modulation oscillator.

- Octave switch with one position for slow modulation waveforms
- Fine-tuning control
- ontrol for mixing the waveform and the Sub-OSC
- Selector switch for Saw and Square
- On/off switch for VCO-2 synchronization with VCO-1
- On/off switch for keyboard control voltages and Envelope 1

The modules



Audio Mixer

The Audio Mixer is used to mix the three basic sound sources.

- Audio Oscillator signal
- Audio/Subaudio Oscillator signal
- Noise signal
- Selector switch for White Noise or Ring Modulation between OSC-1 and OSC-2

The modules

Voltage-Controlled Filter



The 24dB Lowpass VCF is used for timbre modification.

- Cutoff frequency control
- Filter characteristic control with the extreme settings: Low Pass, Resonance

The modules

Filter Controller



For controlling the filter.

- Envelope amount control
- LFO Modulation control
- On/off switch for modulation and keyboard control voltages
- Attenuator for adjusting an additional modulator signal
- Multicontrol switch for selecting the modulator signal

The modules

Envelope Generator



Envelope generator for creating the attack and decay phases.

- Attack time of the envelope
- Switch for two types of envelopes (with or without sustain)
- Decay time of the envelope
- Multicontrol switch for selecting a trigger signal to initiate the envelope

The modules

Voltage Controlled Amplifier



The VCA is used to control the volume.

- Decay time of the second envelope generator
- Velocity modulation for the VCA. The velocity CV modulates the gain.
- Volume control for Output 1
- Multicontrol switch for the VCA
- Multicontrol switch for selecting an audio signal for the VCA

The modules

Connector and Output

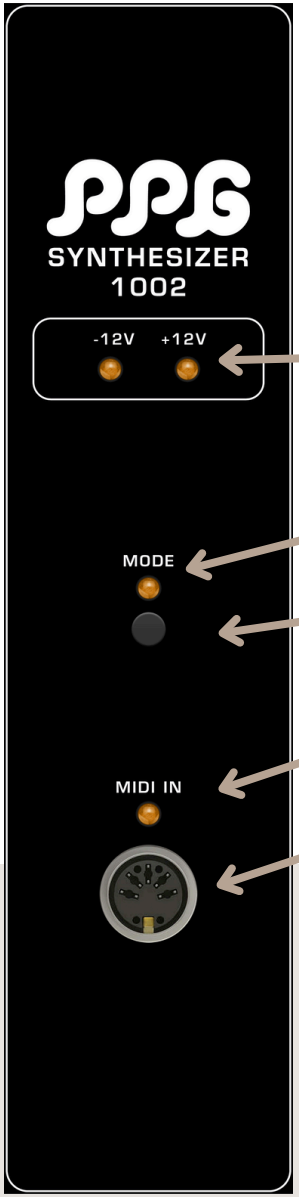


The Connector and Output module for controlling the synthesizer.

- CV, Velocity, and Gate inputs for pitch and volume control, as well as triggering the envelopes
- Audio Outputs 1 and 2
- Headphone output
- Volume control for Output 2 and headphones
- Multicontrol switch for selecting an audio signal for the 2nd output

The modules

Connector and Power



The Power module provides the power supply and offers control via MIDI.

- Control LEDs for both operating voltages
- MIDI Mode LED
- MIDI Mode switch
- MIDI IN Status LED
- MIDI IN DIN socket

The modules

PPG 1002

