Modulaire Maritime — Phosgène Wavetable FM Oscillator

- Manual PDF

Manual PDF / source

Modulaire Maritime Phosgène — Cheat Sheet

What it is

Phosgène is a **2hp digital wavetable / FM oscillator** with: - **60 wavetables total** - **2 banks of 30 waves** - **Two parallel sound engines / outputs** - **Wavetable / waveshaping output** - **FM output** - Shared controls for wave/folding/FM behavior - **V/Oct tracking over 8 octaves** - Internal setting memory for: - bank - wave - octave

Quick start

1. Patch **V/OCT** from your sequencer/keyboard.
2. Take audio from either:
3. **WAVE** for wavetable/waveshaped tones
4. **FM** for darker, tighter FM tones
5. Set **COARSE** to tune.
6. Use **WAVE SEL** CV/input and front-panel selection to choose the waveform.
7. Use **FM MOD CV** to push deeper modulation / timbral movement.
8. Use the **OCTAVE** switch to shift pitch up/down by octaves.

9. Use **OCT DISPLACE** if the wavetable range is too bright/high and you want more usable low-end.

Sound / behavior notes

- **Waveshaping / folding** is available on the wavetable side.
- **FM uses a 100 Hz frequency base**, producing a more restrained spectrum, good for:
- tight FM basses
- dark/deep modulation tones
- **FM and wavetable functions share controls**, but the FM engine has its own output.
- The module has an intentionally **lower-resolution digital character (11-bit)**, so some aliasing / grit is part of the sound.
- **Octave Displace applies only to the wavetable side**, not the FM side.

Controls

Knobs / panel controls

- **COARSE**
- Main coarse tuning control.

Switches / buttons

- **OCTAVE**
- Octave up/down switching.

- Changes pitch in **1 octave steps**.

- **BANK 1 / BANK 2**

- Selects which set of 30 wavetables is active.

- **OCT DISPLACE**

- Shifts the wavetable octave range lower.
- Useful to:
    - keep brighter/folded tables in a more usable range
    - reduce excessively high/alias-prone behavior
    - extend low-end on wavetable tones
- **Does not affect FM output/range**.

Inputs and outputs

> **Important:** The provided manual page does **not specify exact voltage ranges** for the jacks below. Those ranges are therefore **not documented in the source provided**.

Inputs

- **V/OCT**
- 1V/oct pitch input
- Tracks across **8 octaves**

- **Voltage range:** *not specified in manual*

- **FM MOD CV**

- CV input for deeper FM / modulation amount behavior
- Shared modulation interaction with the FM engine

- **Voltage range:** *not specified in manual*

- **WAVE SEL**

- CV/input for waveform selection
- **Voltage range:** *not specified in manual*

Outputs

- **WAVE**
- Audio output for the wavetable / waveshaping path

- **Voltage range:** *not specified in manual*

- **FM**

- Audio output for the FM path
- **Voltage range:** *not specified in manual*

Reference summary

I/O at a glance

Jack	Type	Function	Voltage range
V/OCT	Input	1V/oct pitch control	Not specified
FM MOD CV	Input	FM/modulation CV input	Not specified
WAVE SEL	Input	Wave selection CV/input	Not specified
WAVE	Output	Wavetable / waveshaping audio out	Not specified
FM	Output	FM audio out	Not specified

Controls at a glance

Control	Type	Function
COARSE	Knob	Coarse tuning
OCTAVE	Switch	Octave up/down in 1-octave steps
BANK 1 / BANK 2	Switch	Select wavetable bank
OCT DISPLACE	Switch	Shifts wavetable octave range lower

Practical patch ideas

1. Basic oscillator voice

- **V/OCT** from sequencer
- **WAVE** to filter/VCA
- Use **COARSE** for tuning
- Select bank/wave to taste

2. Dark digital bass

- Patch from **FM** output
- Sequence with **V/OCT**
- Use lower octave settings
- Add envelope/VCA after output

3. Animated wavetable line

- Send slow CV/LFO to **WAVE SEL**
- Listen from **WAVE**
- Use **OCT DISPLACE** if the upper range gets too brittle

4. Parallel dual-tone patch

- Patch **WAVE** and **FM** to separate mixer channels
- Sequence both from same **V/OCT**
- Blend bright wavetable edge with darker FM weight

Memory

Phosgène saves the last used: - **Bank** - **Wave** - **Octave**

These settings are restored on power-up.

Caveats

- The source page is descriptive rather than a full technical manual.
- **Exact jack voltage ranges, output levels, power draw, and calibration details are not provided** in the supplied manual page.
