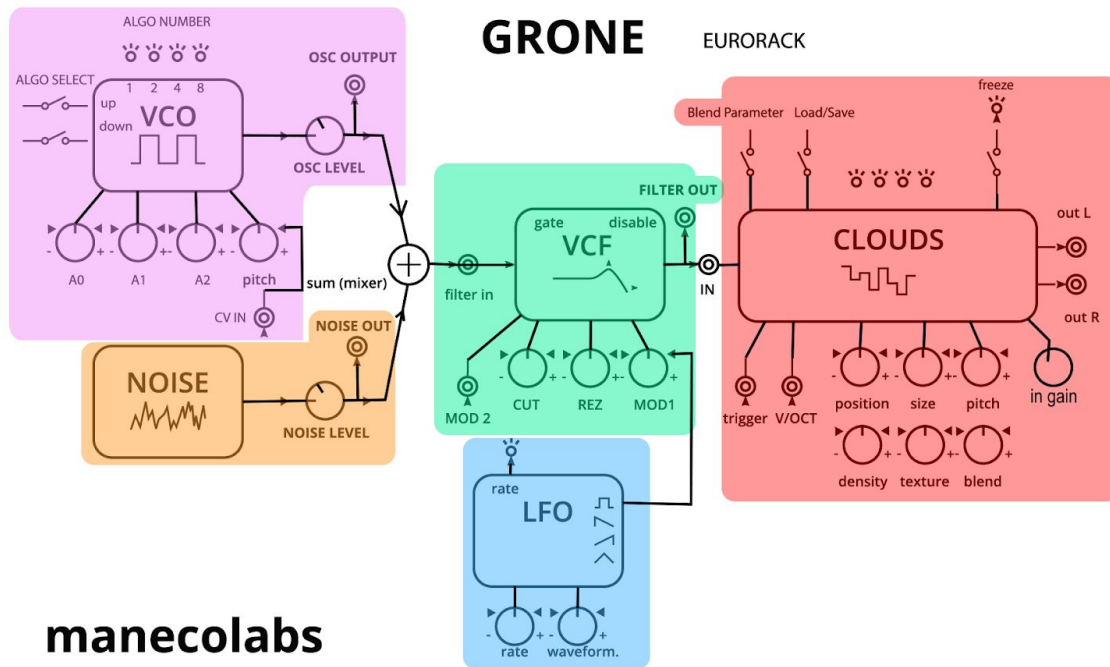**Maneco Labs Grone eurorack version**

Dark drones generator

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Blocks description

Drone VCO :
Generates sound based on equations converted to analog signals , there are sixteen equations selected by **Up** and **Down** switches. Four leds indicate equation number in binary mode. Three Pots modify numbers used by the equation, **A0** , **A1** and **A2** , fourth pot **Sample Rate** controls pitch and speed of the oscillation. There's an **Output Level** pot for the oscillator and a dedicated jack for patching the Oscillator sound to external modules .

NOISE GENERATOR : White noise with **noise level** pot and noise output jack.

VCF : MS20 resonant low pass filter , with **CUT** frequency pot control , **RESONANCE** , **MODULATION 1** amount pot , input and output jacks and second cv input for cut off ,labeled MOD2

LFO : Low frequency oscillator routed to MOD1 from VCF , **RATE** and **WAVEFORM** shape pots.

Waveforms are : ramp up, ramp down, square, triangle, sine , sweep, random levels, random slopes.

CLOUDS : based on MUTABLE INSTRUMENTS eurorack module , with parasites firmware , same controls from MI : **Input gain, position, size, density, pitch, texture, blend** , switches for **blend parameter** and **load/save**, **freeze** control with indicator led , same display as MI original,

Dedicated audio input jack (mono) stereo output and control inputs for V/OCT and TRIGGER.

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