

C4RBN

4/2-POLE STATE-VARIABLE FILTER W/ WAVEFOLDING

C4RBN builds on WMD's history with state-variable filters adding interface refinements and improved warm environment stability for live performance and beyond. A novel input saturation circuit and the output wavefolder from WMD's classic SYNCHRODYNE filter pair together to push the timbral flexibility to the next level. C4RBN is the building block to life in your eurorack.

HP/BP/LP (LEDs & BUTTON): Cycle through the 4 POLE frequency responses. The LED changes immediately but the audio will wait until the user has made their selection. Holding the button will delay the audio change until release.

FM: Inverting attenuator for scaling the signal at the FM input jack. Input is exponential and controls filter cutoff.

SAT: Analog CV input for the input saturator. Offers greater control over the saturation level.

RES: Manual and CV control of filter's resonance. Self oscillates above 3'Oclock.

LP/BP/HP/4 POLE: LP, BP, and HP are the respective outputs of the first 2-Pole filter. 4P is the output of the 2nd, series, 2-Pole filter with selectable frequency response and output wavefolder.



FREQ: Manual filter cutoff frequency control. 2.5Hz to 10kHz

FOLD/SAT (LEDs & BUTTON): Press this button to toggle the 4P output wavefolder. The FOLD LED will be lit if it is enabled. Hold this button to cycle through 4 levels of input saturation. The current level is indicated by the SAT LED.

PING: Sending a gate or trigger into ping generates a fast decay envelope emulating the response of a vactrol.

V/OCT: Calibrated exponential CV input for controlling filter cutoff in the classic keytracking style.

IN: Audio input passes through the input saturator before entering the first 2-Pole filter.

SPECS:

Size: 4hp
PCB: 112mm
Depth: 38mm (with cables)
Power: +92mA, -82mA

Audio Input:
100k ohm impedance
20Vpp range

V/Oct Input:
82k ohm impedance
Temperature Compensated
CV Inputs:
>100k ohm impedance

Filter Outputs:
1k ohm impedance
20Vpp range