



POWER 9V DC, 30mA minimum. 2.1mm center-negative connector.

INPUT IMPEDANCE very high.

OUTPUT IMPEDANCE very low.

BYPASS transparent active bypass system with proprietary electronic switching. No clicks, no pops, will never break.

FOOTPRINT 64 mm x 118 mm

WARRANTY Proton is guaranteed against defects for one year. If you need to send your pedal in for repair, send me an email.

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Welcome to the Proton: an optically controlled analog envelope filter.

TIPS FOR GREAT TONE

An envelope filter reacts to your playing dynamics, so you have to learn to "play" it like an instrument. Subtle changes in pick attack will open the filter in different ways.

The response, decay and tone controls are somewhat interactive. When adjusting decay and tone, you may need to adjust the response to compensate.

Try putting the Proton in different spots in your signal chain - it sounds very different before and after overdrive.

RESPONSE adjusts the envelope detector's sensitivity to your playing dynamics. This should be adjusted based on the output of your instrument. Start with the sensitivity at minimum and turn up until the filter reacts to your liking.

PEAK sets the amplitude of the filter's resonant peak. Higher settings produce a more aggressive sweep with a sharper resonant peak.

DECAY sets the time it takes for the filter to close. Higher settings produce long, nautral envelope sounds, while lower settings produce a snappier, more rubber band-like feel.

TONE sets the maximum cutoff frequency of the filter. It works like the tone knob of a guitar or bass. Higher settings will accentuate the treble frequencies; lower settings increase the filter's warmth.

RANGE toggles the frequency range of the filter. The high position is similar to the previous version of the Proton. The low position is extra deep and chonky.

SWEEP toggles the direction of the filter sweep. You may need to change the settings of the response/decay/tone knobs. With the sweep switch down, the decay knob sets the lowest the filter can sweep. I like to set the tone knob on the high side and adjust decay until I find the sweet spot. It will vary based on your amp/speakers.