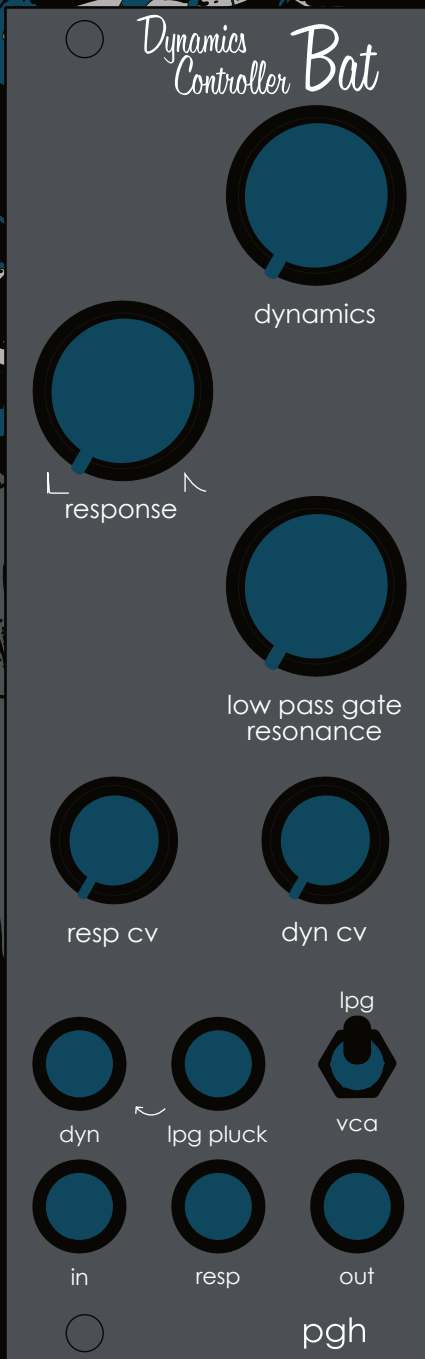


# Dynamics Controller Bat

pgh



Nothing has more depth, sounds more natural, or feels more alive than the Dynamics Controller Bat.

Both a resonant filter and a VCA, the Pittsburgh Modular Dynamics Controller Bat is a modern reinterpretation of Don Buchla's famous "lowpass" gate.

Unlike a VCA, which simply changes the loudness of the sound without modifying the harmonic content, the lowpass gate circuit uniquely simulates the characteristics of how sounds interact in natural environments.

When used in lowpass gate mode, louder sounds contain more harmonic content and quieter sounds contain less harmonic content. The result is a more organic, complex, and rounded sound.

Don Buchla's original lowpass gate (LPG) was limited to a static response time that varied from unit to unit. For better or worse, this made each lowpass gate a little different. Pittsburgh's research that has made its way into the Dynamics Controller Bat solves this issue. It modernizes Don Buchla's concept by adding a unique voltage controllable response curve and variable resonance to the lowpass gate. This allows for all the sonic depth of the LPG while providing the same kind of sustain control offered by a more traditional VCA. The resulting Pittsburgh innovation is the best of both worlds, natural and alive sound, that's completely controllable.

The Dynamics Controller played a large part in shaping the sound of the Voltage Lab by utilizing a unique audio processing circuit that adds dimension to a sound.

## Knobs, and Jacks

**Dynamics Knob** Acts as a filter sweep in LPG mode and audio pass-thru level control in VCA mode for the incoming audio signal.

**Response Knob** Controls the decay time of the incoming Dynamics CV signal. In LPG Mode, this control uses analog circuitry to expand the response Don Buchla's original low pass gate circuit creating a musically pleasing organic envelope. Turning the knob to the right increases the decay time.

**Low Pass Gate Resonance Knob** Adjusts the amount of resonance added to the audio signal. Turning the knob to the right increases the resonance.

**Response CV Attenuator** Response time control voltage attenuator.

**Dynamics CV Attenuator** Dynamics control voltage attenuator.

**Low Pass Gate / VCA Switch** Up for LPG mode and down for VCA mode.

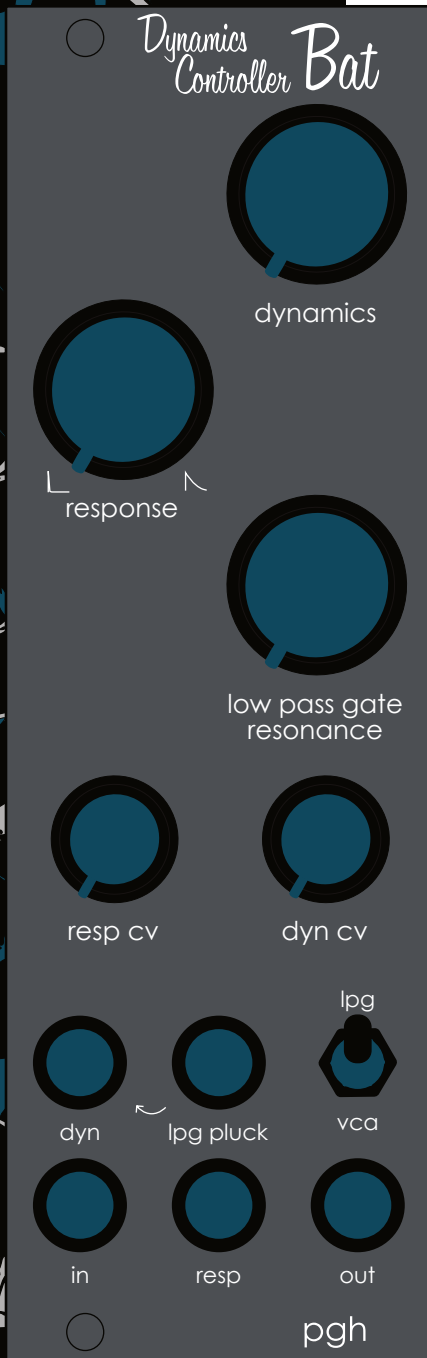
**Dynamics CV Jack** CV input used to modulate the dynamics control. Switched jack is normaled to the LPG Pluck Jack.

**Low Pass Gate Pluck Jack** Uses a sharp gate or envelope signal to pluck or strike the Dynamics Controller while taking advantage of the sharp response to create a percussive sound with a natural decay.

**Input Jack** Audio input.

**Response CV Jack** CV input used to modulate the response time.

**Output Jack** Audio output.



## Specs

**Size** 8hp

**Depth** 24mm

**Power** +12v 68 mA / -12v 60 mA