

MS Extension Module Log / Exp Amp Owner's Manual

Thank you for the purchase of beatnic.jp's products. "Log / Exp Amp" is very first products of "MS Extension module series. It's series of modules that's not included, or that everyone feels that if there were one more.

Keep out next statements and enjoy it.

1. Don't use this at too hot or cold place. Especially avoid to get water or so.
2. Use it with stabilized DC 5V. beatnic.jp provides "#053 AC adapter5V"

※ : MS-20mini is trade mark of Korg, Inc.

Outline

"Log / Exp Amp" is CV curve converter. this product has logarithm converter module for CV, Exponential converter module for CV and polarity Inverter for gate. Generally, Analog patching synthesizer is reconstructed with your patching for getting new sounds. The signals that flow on the cable that you use are called as CV or Gate.

And there is 2 formats in CVs for pitch. One is "V/Hz" that used by

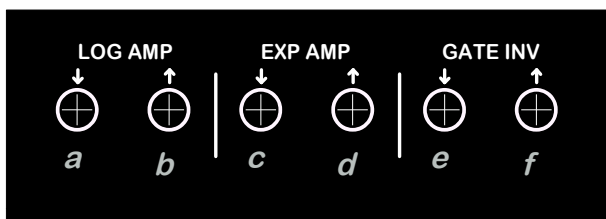
Korg or Yamaha and the other is "V/Oct" that used by Roland or Moog. Logarithm converter converts linear changes of CV to Logarithm curve, or exponential curve to linear.

Exponential converter converts linear changes of CV into exponential curve, or Logarithm curve of CV to linear.

And Gate polarity Inverter converts polarity of gate.

Front Panel

Front panel



This is front panel of "Log / Exp Amp". there is 6 of 3.5mm mini phone jacks. Alphabetic letters on the panel is for instructions.

- a. Log Amp Input : Input of Logarithm converter.
- b. Log Amp Output : Output of Logarithm converter.
- c. Exponential Input : Input of Exponential converter.
- d. Exponential Output : Output of Exponential converter.
- e. Gate Inverter input : Input of Gate polarity Converter.
- f. Gate Inverter Output : Output of Gate polarity Converter.

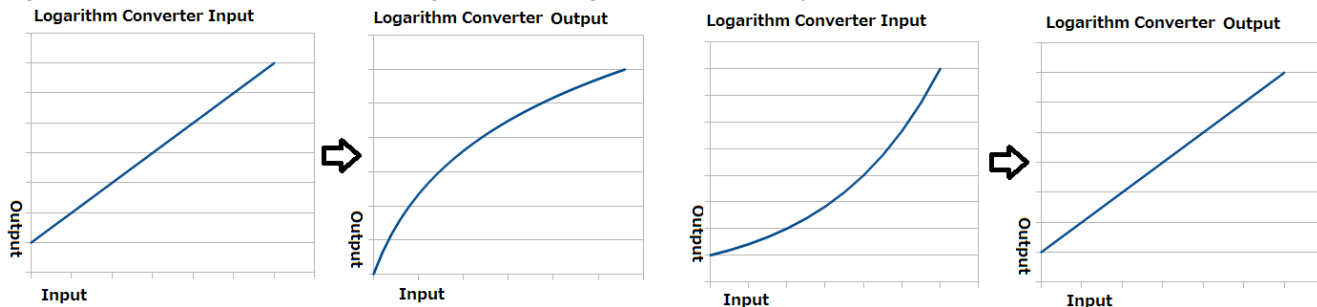
Rear panel has only DC input jack. Use it with stabilized DC 5V adapter other than that coming with MS-20 mini.

beatnic.jp provides "#053 AC adapter5V"

Discription

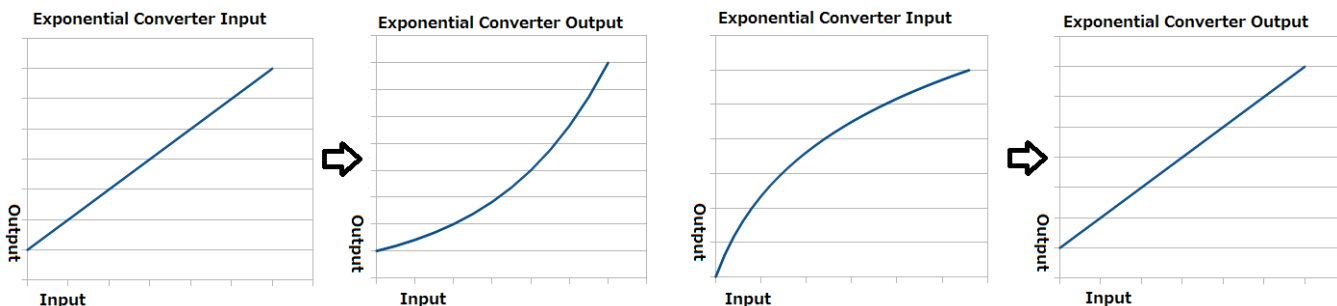
Logarithm converter

Logarithm converter converts linear changes of CV to Logarithm curve, or exponential curve to linear.



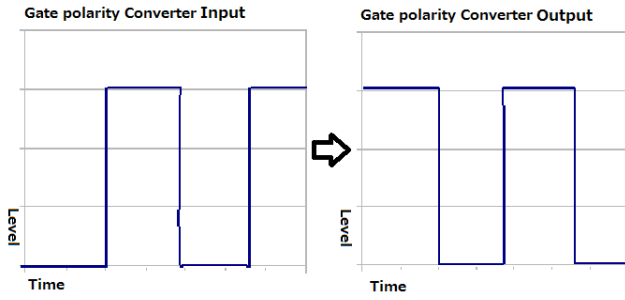
Exponential converter

Exponential converter converts linear changes of CV into exponential curve, or Logarithm curve of CV to linear.

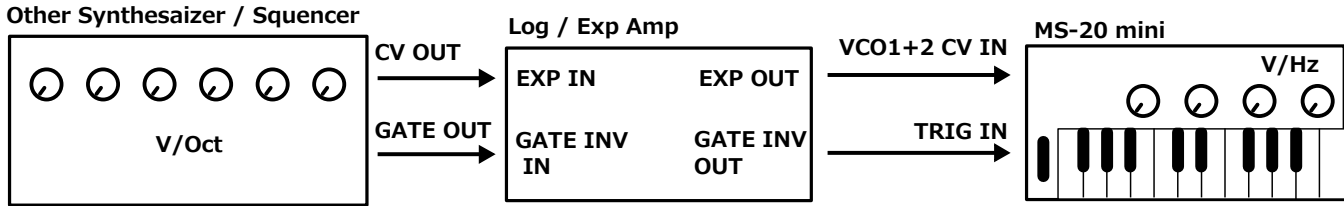


Gate polarity Inverter

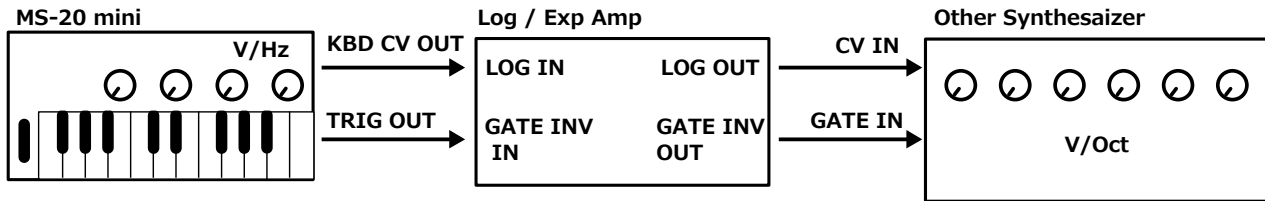
Gate polarity Inverter converts polarity of gate.



Patching Example



This is example for the patching getting sounds from MS-20 mini by another keyboard or Sequencer that's based on V/Oct standards.



This is exsample for the patching getting sounds another synthesaizer that's based on V/OCT standards by Keyboard of MS-20 mini. MS-20mini's VCO is based on V/Hz standards and the keyboard connected inside provides CV with exponential curve. So Using "Log converter" makes it linear changes of CV to be able to control other synthesizer correctly. Some of synthesizer that's connected with don't need Gate polarity converter.