

— ph —

3x ATT

Manual V1.3

- Triple passive attenuator, with selector mode: lin(ear) or log(arithmic).
- 3 independent similar channels
- Pre attenuator multiple

Linear mode it will be used for logic signal (CV, LFO...)

Logarithmique mode it will be favored for audio signal.

What's the difference between a lin and log pot and why we utilise this:

Linear:

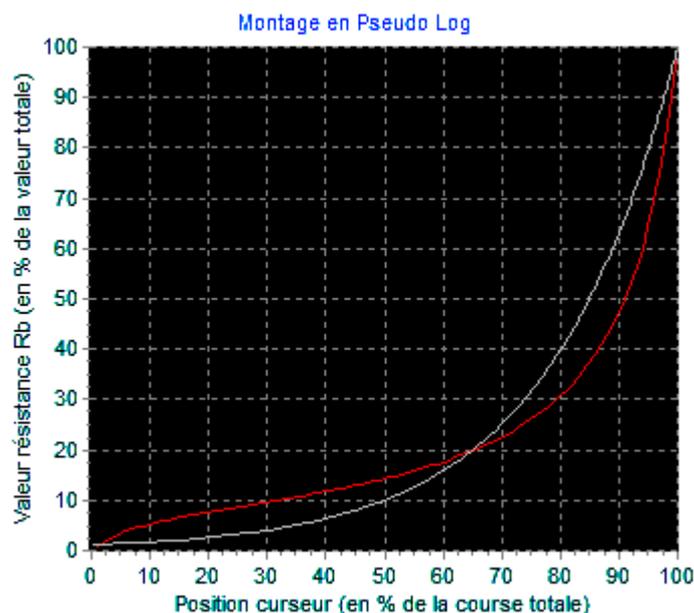
The resistance of this type of potentiometer varies linearly, that is to say that the value of its resistance increases (or decreases) proportionally when moving the cursor. It is used, for example in a variable voltage source. Ideal for logic signals, CV, LFO etc ...

Logarithmic:

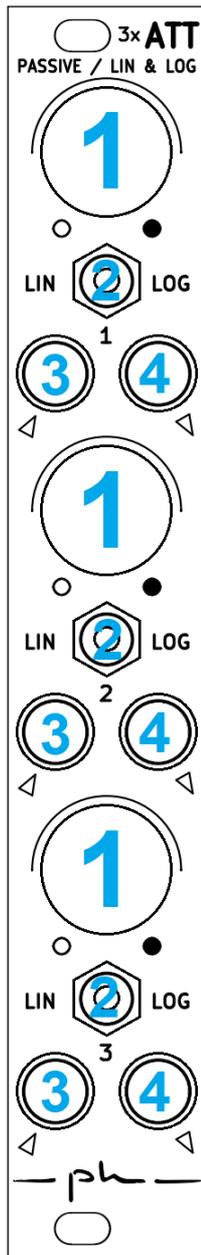
The resistance of this type of potentiometer varies exponentially, that is to say that the value of its resistance increases (or decreases) more and more rapidly when the cursor is moved. Ideal for AUDIO sources, for sound volume adjustments, to adapt to the characteristic of the human ear, which has a logarithmic response to the pressure that the air exerts on the eardrums.

In this graph (*source: "PotModCurve" software*):

- The white curve is the value of a classic logarithmic potentiometer,
- The red curve is the (theoretical) curve produced by the 3xATT module.



1) Presentation



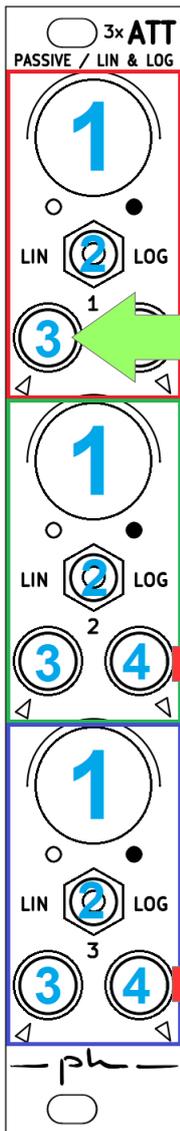
1 : Attenuator potentiometer

2 : selector 2 positions : linear or logarithmic mode

3 : jack 3,5mm IN

4 : jack 3,5 mm OUT

***pre attenuator multiple**



Connection on the entrance of the first stage...

... The signal is multiplied to the OUT outputs of the two other stages of the module, in pre-attenuator, with the LIN/LOG curve selectable individually.

Thus, you can dose independently with 3 different settings, an incoming signal on one input and repeated on the 3 outputs!

In this example, if you connect a cable to the IN3 input of stage 2, the link is broken and this stage becomes independent. Ditto for the third stage.

Characteristics

Size 4hp (2 cm), epoxy black panel 1,6 mm.

Deep : 12mm with connector.

PCB in epoxy FR4 dual layer, 1,6 mm. Surface finish HASL.

Ribbon cable, M3 and nylon nuts inc.

No consumption (passive module)

Components tested and assembled by hand, in Brittany, France.

*thank you for your trust
Feel free to give me your opinion, criticism or wishes ...
Other modules are coming*

mail : phneutre56@gmail.com

<http://ph.neutre.free.fr>