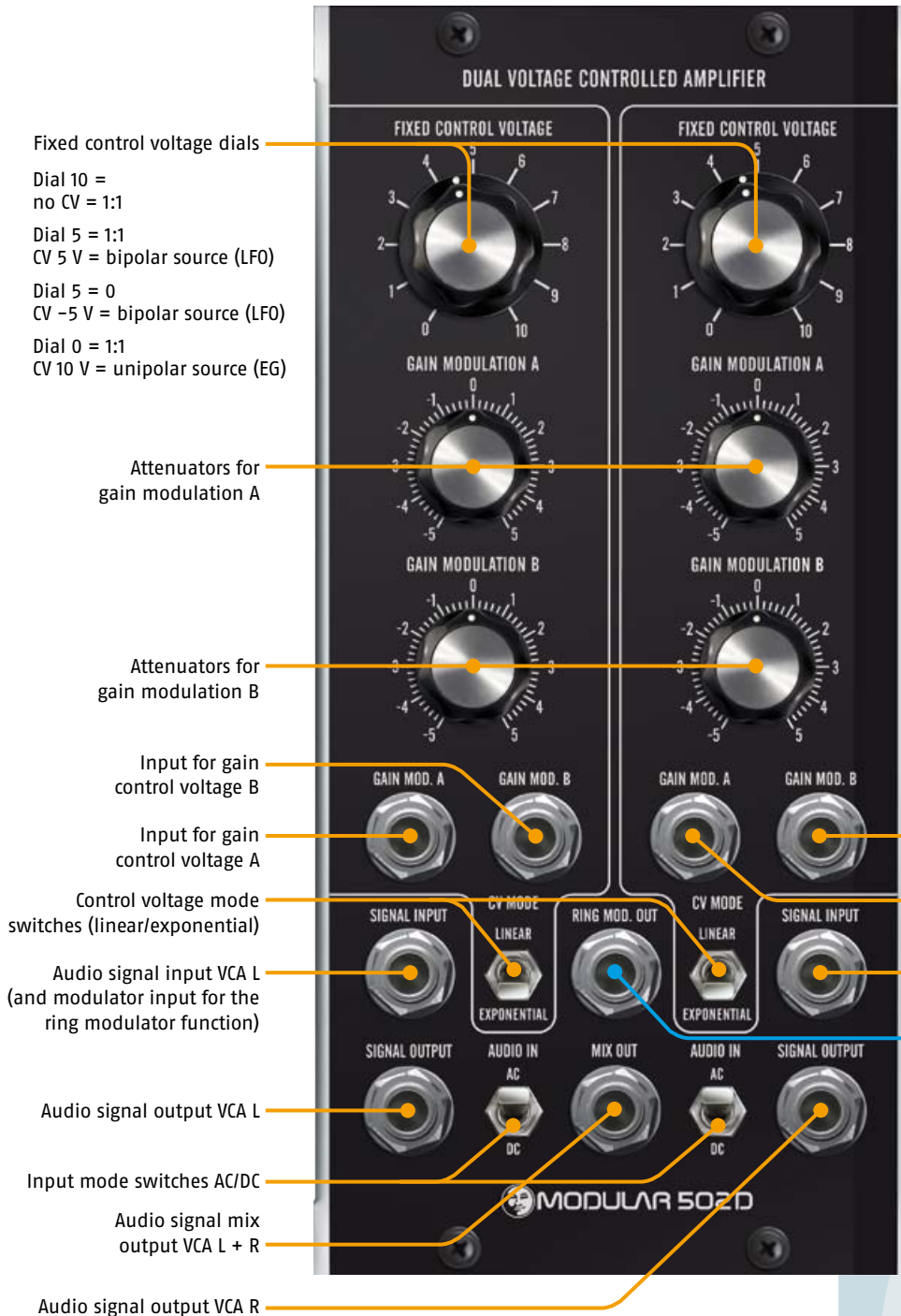


502D

DUAL VOLTAGE CONTROLLED AMPLIFIER AND RING MODULATOR



Fixed control voltage dials
Dial 10 =
no CV = 1:1
Dial 5 = 1:1
CV 5 V = bipolar source (LFO)
Dial 5 = 0
CV -5 V = bipolar source (LFO)
Dial 0 = 1:1
CV 10 V = unipolar source (EG)

Attenuators for
gain modulation A

Attenuators for
gain modulation B

Input for gain
control voltage B

Input for gain
control voltage A

Control voltage mode
switches (linear/exponential)

Audio signal input VCA L
(and modulator input for the
ring modulator function)

Audio signal output VCA L

Input mode switches AC/DC

Audio signal mix
output VCA L + R

Audio signal output VCA R

The **M 502 D DUAL VCA** module combines two separate voltage controlled amplifier circuits with each two modulation inputs, switchable linear/exponential mode, switchable AC/DC mode (audio signals/control voltages), single, mix and ring modulator outputs.

The module can act as two independent mono or one stereo VCA, as dual channel VC mixer, as auto-pan module, as ring modulator and voltage controlled attenuator for control voltages.

Normalized connections:

- the right VCA's gain mod. input A is normalized to gain mod. input A of the left VCA
- the right VCA's gain mod. input B is normalized to gain mod. input B of the left VCA
- the right VCA's signal input is normalized to the signal input of the left VCA

This allows controlling both VCAs by a single control voltage

Input for gain
control voltage B

Input for gain
control voltage A

Audio signal input VCA R (and carrier
input for the ring modulator)

Ring modulator output