



ADDAC216 SUM & DIFFERENCE
USER'S GUIDE . REV01

October.2019

Welcome to: ADDAC216 SUM & DIFFERENCE

Revision.01 October.2019

USER'S GUIDE

OVERALL DESCRIPTION

There are two equal sections in this module labeled A and B.

This module is a peculiar type of mixer that instead of just summing two input signals (X & Y) it also allows the possibility to subtract the two signals. It works both for audio and CV signals and hence the possibility to get the difference of two CVs or cancel the phase of two audio signals.

The resulting signal, of sum or subtraction, is then routed through a switchable (on/off) full rectification circuit labeled: Absolute. After this the gain of the mixed signal goes through another attenuverter labeled: Amplitude to control the resulting signal gain which, being an attenuverter, also allows the possibility to invert the incoming signal. After the Amplitude comes an AC/DC coupling switch followed by an bipolar Offset knob.

Besides the normal output there's also an inverted output for each of the A & B sections.

The outputs of section A & B are also summed and sent to the Average Output.

Using a single input, just the X or Y input, the module can also be used as a simple dual Attenuverter & Offset CV processor with full rectification and AC coupling options.

Features:

2 independent sections each with:

2 inputs with gain attenuverters

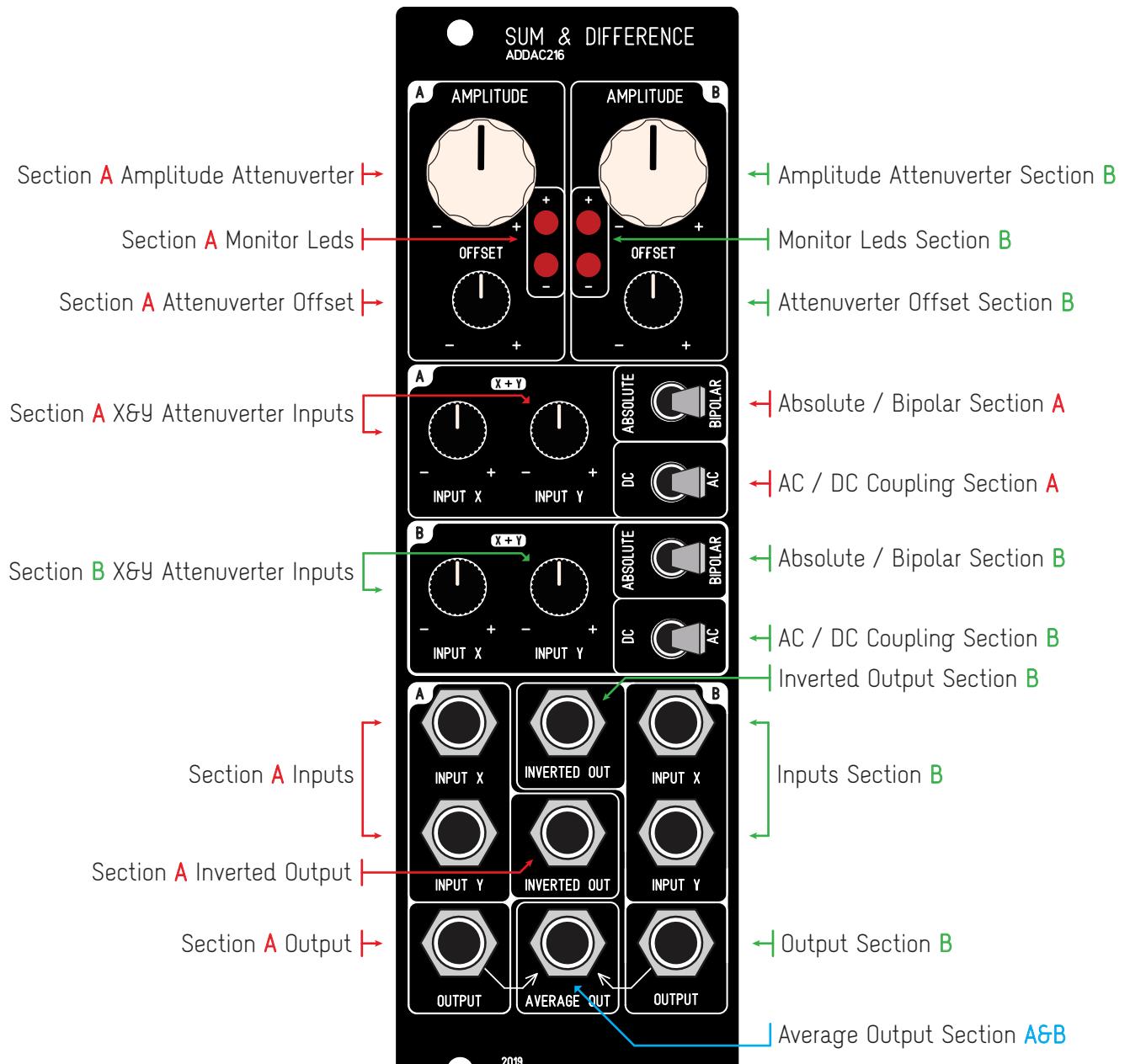
Absolute/Bipolar and AC/DC switches

Output and inverted output

2 leds monitor the Output polarities and gain.

Average mix output of both sections

CONTROLS DESCRIPTION

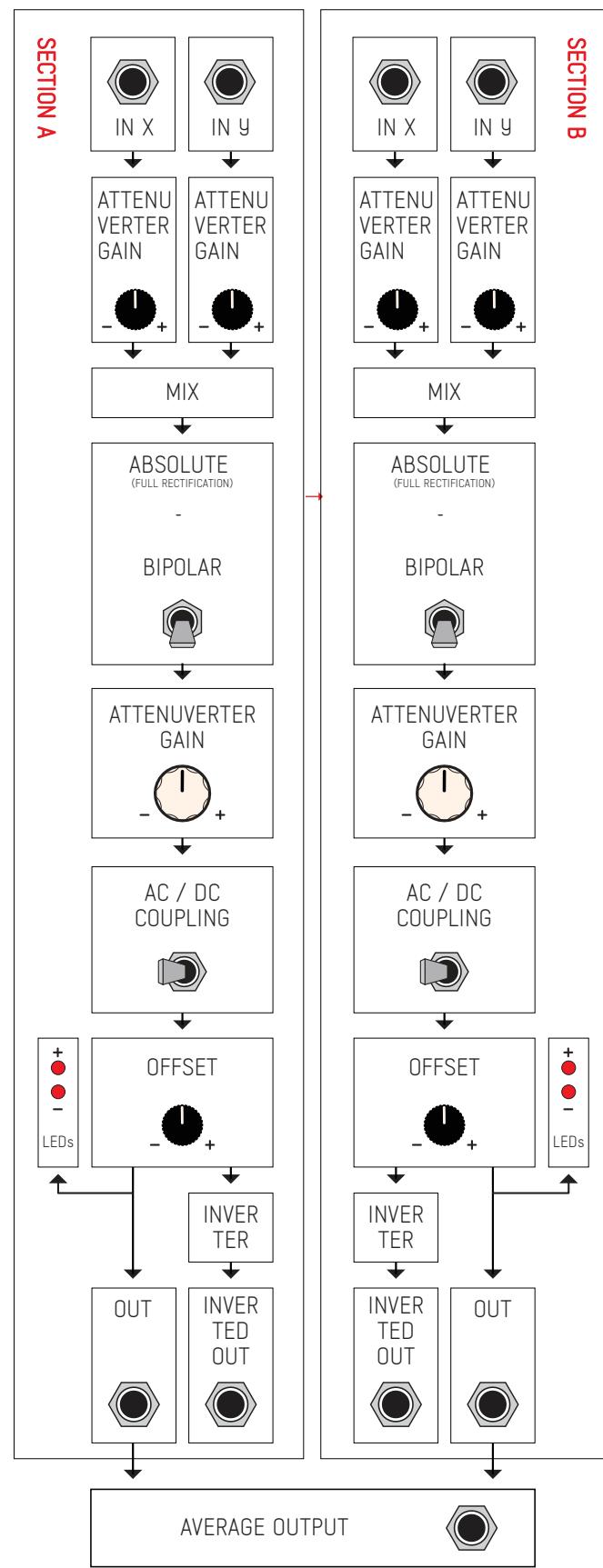


█ SECTION A

█ SECTION B

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SIGNAL FLOW DIAGRAM



For feedback, comments or problems please contact us at:
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