Offset Compensator

Version 2022-04-27

This module serves to manipulate signal DC amount. Depending on selected mode, a calculated DC offset voltage will be added to signal. A further offset can be added manually or by CV.

Offset addition uses a smoothing algorithm, that prevents signal from adding extra noise.

Module function may be bypassed.

Controls and Connectors

Four modes are selectable with upper slider:

- **max** - Sets signal maximum value to zero. Output signal is completely negative.

- **mid** - Sets offset so, that zero line is in the middle between maximum and minimum.

- **avr** - Sets signal average to zero. DC content is eliminated.

- **min** - Sets signal minimum value to zero. Signal is completely positive.

Second slider lets you chose a response time, that is used to calculate signal average. Response time can be preset within four ranges to match signal frequency.

An extra offset can be added to signal manually with this knob, until no cable is connected to CV input jack.

Small black knob set CV offset amount.

When a cabel is connected to CV input jack, manual offset knob will be set by CV only.

Signal input jack.

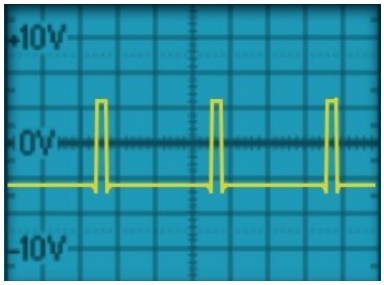
Signal output Jack.

Bypass toggle button deactivates signal manipulation. Signal processing can be bypassed by selecting “bypass” within rith click mouse menue.

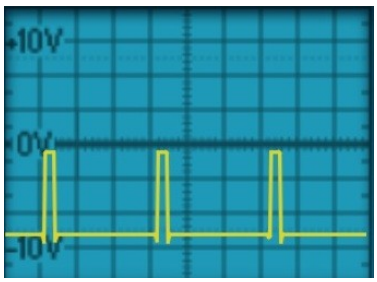
Examples

These pictures demonstrate different working modes.

1. Bypassed input signal.

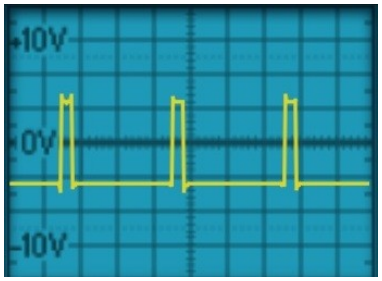


2. Output signal in **max** mode. Signal is below zero line.



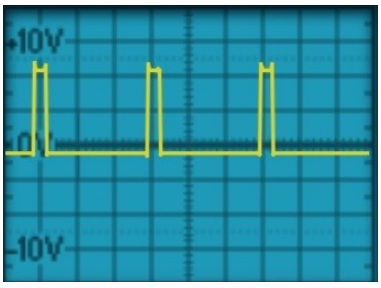
3. Output signal in **mid** mode.

Signal is symmetrical to zero line.



4. Output signal in **avr** mode.

Signal average determines offset. DC amount will be eliminated.



5. Output signal in **min** mode. Signal is always positive.