BEHRINGER 1027 Clocked Sequential Control Module User Manual

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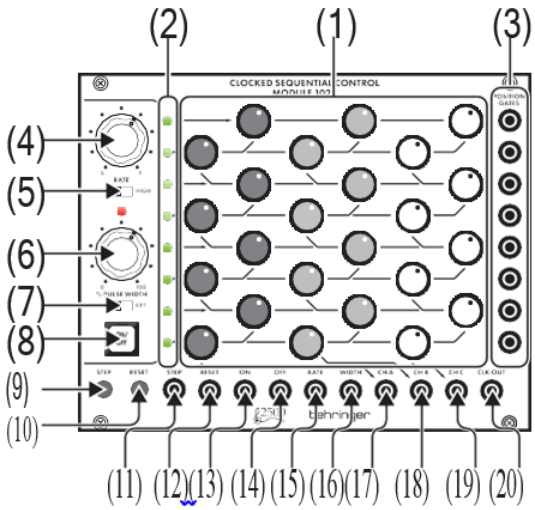
Quick Start Guide

CLOCKED SEQUENTIAL CONTROL MODULE 1027

Legendary 2500 Series 8-Position Step Sequencer Module for Eurorack Controls



(1) CH A / CH B / CH C SEQUENCER COLUMNS – Use the knobs to set the control voltage output for each step. Each column sends out control voltages via that channel's respective CH A / CH B / CH C output jack.
(2) STEP LEDs – Each LED lights to indicate its respective sequencer step is active.
(3) POSITION GATES – Each of these output jacks sends out a gate signal for its respective sequence step via cables with
3.5 mm TS connectors. These 8 gate output signals are also available via the 12-pin GATE OUT LINK CONNECTOR located on the module underside. This 12-pin connector can connect to and trigger other compatible modules, such as the MIX-SEQUENCER MODULE 1050, via a 12-pin ribbon connector.
(4) RATE – This knob controls the step speed at which the sequencer moves from step to step. The knob operates in two overall frequency ranges determined by the

LOW/HIGH switch.

(5) LOW/HIGH – Use this sliding switch to set whether the

RATE knob operates in a lower-frequency (LOW) or higher-frequency (HIGH) range.

% PULSE WIDTH – Select between width settings

for the rectangular waveform ranging from 5% to 95% duty cycle. The PULSE WIDTH control operates on the CLK OUT jack only, making this control very useful for triggering other modules such as envelope generators, and so on.

- **INT/EXT** – Use this switch to select between internal (INT) or external (EXT) pulse width control When EXTis selected, the % PULSE WIDTH control knob is disabled.
- **ON /OFF** – This button starts or stops the sequence with amanual button push.
- **STEP** – Press this button to manually progress to the next sequencer
- **RESET** – Press this button to manually restart the sequence at step
- **STEP** – Use this jack to route external trigger signals for the STEP button into the module via cables with 5 mm TS connectors.
- **RESET** – Use this jack to route external trigger signals for the RESET button into the module via cables with 5 mm TS connectors.
- **ON** – Use this jack to route external trigger signals to enable the step counter into the module via cables with 3.5 mm TS connectors.
- **OFF** – Use this jack to route external trigger signals to disable the step counter into the module via cables with3.5 mm TS connectors.
- **RATE** – Use this jack to route in external control voltage signals for the sequencer's step speed (usually controlled by the RATE knob) via cables with 5 mm TS connectors.
- **WIDTH** – This jack allows control voltage and modulation signals for the rectangular waveform to be routed in via cables with 5 mm TS connectors.
- **CH A** – This jack sends out control voltage signals for the CH A sequencer column via cables with 5 mm TS connectors.
- **CH B** – This jack sends out control voltage signals for the CH B sequencer column via cables with 5 mm TS connectors.
- **CH C** – This jack sends out control voltage signals for the CH C sequencer column via cables with 5 mm TS connectors.
- **CLK OUT** – Use this jack to export the internally generated clock signal via cables with 3.5 mm TS

The internal clock produces a gate pulse every time the sequencer steps, and the gate pulse's width can be adjusted using the % PULSE WIDTH control or via the WIDTH control jack.

Power Connection

The CLOCKED SEQUENTIAL CONTROL MODULE 1027 module comes with the required power cable for connecting to a standard Eurorack power supply system. Follow these steps to connect power to the module. It is easier to make these connections before the module has been mounted into a rack case.

1. Turn the power supply or rack case power off and disconnect the power
2. Insert the 16-pin connector on the power cable into the socket on the power supply or rack The connector has a tab that will align with the gap in the socket, so it cannot be inserted incorrectly. If the power supply does not have a keyed socket, be sure to orient pin 1 (-12 V) with the red stripe on the cable.

3. Insert the 10-pin connector into the socket on the back of the The connector has a tab that will align with the socket for correct orientation.
4. After both ends of the power cable have been securely attached, you may mount the module in a case and turn on the power

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Installation

The necessary screws are included with the module for mounting in a Eurorack case. Connect the power cable before mounting.
Depending on the rack case, there may be a series of fixed holes spaced 2 HP apart along the length of the case, or a track that allows individual threaded plates to slide along the length of the case.
The free-moving threaded plates allow precise positioning of the module, but each plate should be positioned in the approximate relation to the mounting holes in your module before attaching the screws.
Hold the module against the Eurorack rails so that each of the mounting holes are aligned with a threaded rail or threaded plate. Attach the screws part way to start, which will allow small
adjustments to the positioning while you get them all aligned. After the final position has been established, tighten the screws down

Specifications

Inputs	
On / off	
Type	2 x 3.5 mm TS jacks, DC coupled
Impedance	100 KΩ, unbalanced
Maximum input level	10 V
Minimum switching threshold	2.5 V, trigger
Rate	
Type	1 x 3.5 mm TS jack, DC coupled
Impedance	100 KΩ, unbalanced

Maximum input level	10 V, 1 V/oct.
Width	
Type	1 x 3.5 mm TS jack, DC coupled
Impedance	100 KΩ, unbalanced
Maximum input level	10 V
Step / reset	
Type	2 x 3.5 mm TS jacks, DC coupled
Impedance	100 KΩ, unbalanced
Maximum input level	10 V
Minimum switching threshold	2.5 V
Outputs	
Ch A / B / C	
Type	3 x 3.5 mm TS jacks, DC coupled
Impedance	1 KΩ, unbalanced
Maximum output level	10 V
Clock out	

Type	1 x 3.5 mm TS jacks, DC coupled
Impedance	1 KΩ, unbalanced
Maximum output level	5 V

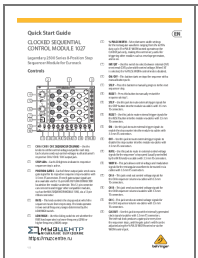
Position gates	
Type	8 x 3.5 mm TS jacks, DC coupled
Impedance	1 KΩ, unbalanced
Maximum Output level	5 V
Controls	
Rate	1 x rotary knob, Low (0.3 Hz to 15 Hz) High (10 Hz to 400 Hz)
% Pulse width	1 x rotary knob, 5% to 95%
Low / high	1 x sliding switch
Int / ext	1 x sliding switch
On / off	1 x button, LED backlit
Sequencer voltage knobs	24 x rotary knob, 0 V to 10 V
Step / reset	2 x momentary switch
Power	

Power supply	Eurorack
Current draw	70 mA (+12 V), 30 mA (-12 V)
Physical	
Dimensions	43 x 162 x 129 mm (1.7 x 6.4 x 5.1″)
Rack units	32 HP
Weight	0.37 kg (0.81 lbs)

LEGAL DISCLAIMER

LIMITED WARRANTY

For the applicable warranty terms and conditions and additional information regarding Music Tribe’s Limited Warranty, please see complete details online at musictribe.com/warranty.

	**BEHRINGER 1027 Clocked Sequential Control Module** [pdf] User Manual 1027 Clocked Sequential Control Module, 1027, Clocked Sequential Control Module, Sequential Control Module, Control Module

References

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- User Manual