



Features

- Controls for Attack, Decay and Release envelope phases along with the Sustain level
- Time range selection switch x1 / x10
- Gate input for full ADSR output
- Manual gate button
- LED indicator of gate pulse
- AR Trig input for full AR envelope from a trigger pulse
- The AR Trig input can also be used for re-triggering the attack / decay phases whilst the gate input is active
- Gate output for cascading ADSR modules. Gate pulse width equal to the attack, decay and sustain periods (just the attack period when in AR trig mode).

Kit Contents				
Description	Reference	MOTM Qty	MU Qty	Notes
Components Kit	7216-120-1	1	1	See BOM
Accessories Pack including:	7216-120-2	1	1	
Pot Sticky Pads	7210-188	4	4	
10mm M4 Spacers	7210-186	4	4	
M4 x 14 Cap Head Screws	7210-187	4	4	
M3 x 8mm Stainless Panel Screws	7212-774	4	4	
8-Pin IC Socket	7212-331	1	1	
14-Pin IC Socket	7212-332	2	2	
16-Pin IC Socket	7212-333	1	1	
Power Lead	7216-164	1		
Toggle Switch Dress Nut	7210-196	1	1	
MOTM Front Panel	7216-520	1		Black
MOTM Back Panel	7216-820	1		
Mu Front and Back Panel	7219-520		1	
Main PCB	7216-020	1	1	
Jack Socket PCB	7215-722	1	1	
Jack Sockets	7216-604	1	1	Pack of 4
B100k Pots Long Shaft	7216-704	1		Pack of 4
B100k Pots Short Shaft	7216-734	1	1	Pack of 4
KM20B Knobs	7212-104	1		Pack of 4
MU Knobs	7219-104		1	
General Assembly Guidance Booklet		1	1	
BOM	S-7216-020-e	1	1	
Circuit Schematic	S-7216-020-e	1	1	
PCB Layout	S-7216-020-e	1	1	

Assembly Instructions

The Compact ADSR module has no particular requirements not already covered in the 'General Guidance on a M²Synth Module Assembly' booklet included with this kit except:

The LED switch will sit better on the PCB if the small spigot on the rectangular standoff is snipped off. Make sure the switch is soldered onto the PCB the correct way around. The green marking on the side of the switch body is the cathode.

The back panel has a small rebate around the LED switch hole for the switch body to sit in.

Calibration

This module requires no calibration or tuning.

Specification

- Supply voltage +/-12Vdc
- Supply current +20mA / -23mA
- Output level 0-10V
- Typical delay times

Short Time

Mode	Min	50%	Max
Attack	3mS	12mS	1S
Decay	6mS	35mS	3S
Release	7mS	40mS	3S
ADSR	16mS	90mS	7S

Long Time Mode

	Min	50%	Max
Attack	30mS	120mS	12S
Decay	60mS	350mS	25S
Release	70mS	400mS	30S
ADSR	160mS	900mS	57S

- Main PCB dimensions 43.5x154.85mm

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