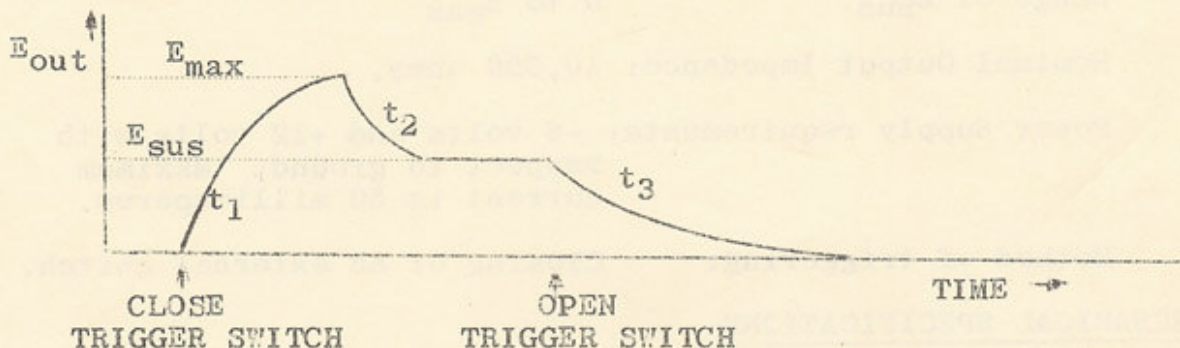


specifications

MODEL 911

GENERAL DESCRIPTION

The Moog Model 911 Envelope Control Voltage Generator is a device for generating single voltage contours of the type illustrated below:



When the triggering switch (external to the Model 911) is closed, the output voltage E_{out} rises with a characteristic time t_1 . When E_{out} reaches a set level E_{max} , it immediately begins to fall with a characteristic time t_2 , and to approach and level off at E_{sus} . The output voltage remains at E_{sus} until the triggering switch is opened, at which time it falls to zero with a characteristic time t_3 . The voltage-time contour is thus characterized by four variables: the rise time (t_1), the initial decay time (t_2), the sustain level (E_{sus}), and the final decay time (t_3). t_1 , t_2 , t_3 , and E_{sus} are all continuously variable over wide ranges by means of panel controls.

The output voltage E_{out} may be applied to the control input of any voltage-variable device. In particular, the use of the Model 911 in conjunction with a voltage-controlled amplifier such as the Moog Model 902 enables the composer to impart an extremely wide variety of amplitude envelopes to steady signals. Similarly, voltage-controlled oscillators and filters produce musically useful sounds when used in conjunction with the Model 911.

ELECTRICAL SPECIFICATIONS

Range of t_1 :	10 milliseconds - 10 seconds
Range of t_2 :	10 milliseconds - 10 seconds
Range of t_3 :	10 milliseconds - 10 seconds
E_{\max} (Voltage at which t_2 begins):	5.5 volts \pm 10%
Range of E_{sus} :	0 to E_{\max}
Nominal Output Impedance:	10,000 ohms.
Power Supply requirements:	-6 volts and +12 volts with respect to ground. Maximum current is 50 milliamperes.
Method of triggering:	Closing of an external switch.

MECHANICAL SPECIFICATIONS

Panel Size:	8-3/4" high x 2-1/8" wide
Depth behind panel:	6"
Panel Components	4-Potentiometer knobs for t_1 , t_2 , t_3 , and E_{sus} . 1-Output phone jack 1-Socket for external triggering switch (Jones E-302)
Rear Connector:	Printed Circuit Board (Mates with standard 22-pin connector.)

REQUIRED ACCESSORIES

- A. Power supply for supplying -6 volts and +12 volts. Either a regulated A.C. supply (e.g. Moog Model 910) or dry batteries is satisfactory.
- B. Enclosure for mounting instruments with 8-3/4" vertical panels.
- C. Any voltage-variable device, such as the Moog Model 901 Voltage-Controlled Oscillator, Model 902 Voltage-Controlled Amplifier, or Model 904 Voltage-Controlled Filter.