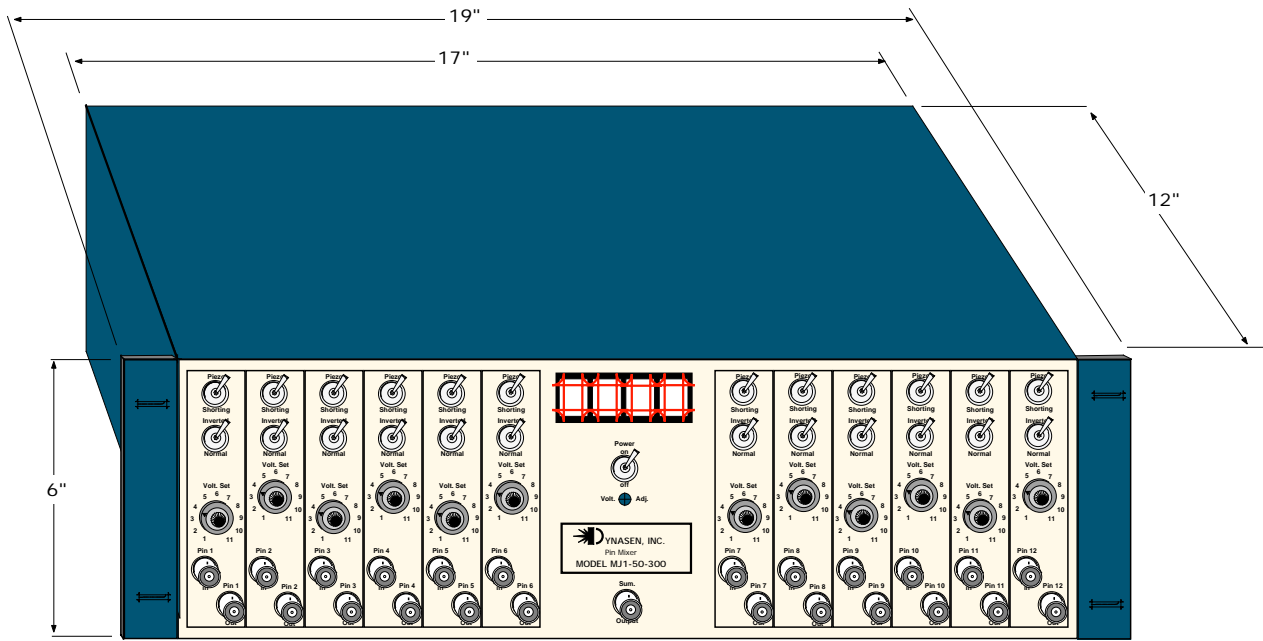


# PIN MIXER MODEL MJ1-50-300

DATA SHEET #8  
VER:2-7/25/97



Dynasen's Pin Mixer, Model MJ1-50-300, is a twelve-channel instrument that can be used with self-shortening (ionization) or piezoelectric time-of-arrival detectors (pins) or switches and is capable of producing highly recognizable and identifiable output signals. The signal produced by each channel can be either individually viewed from a dedicated output port or from the single output a summing/follower dedicated arrangement. The individual output is always positive and can be amplitude-coded from one to ten volts in steps of one volt increments using a voltage-select switch. The output of the summing/follower, which is also amplitude-coded as per the individual output can be made either positive or negative through the action of a polarity switch. All odd numbered channels produce quasi-triangular output pulses whereas all even numbered channels produce quasi-rectangular pulses. All channels can be set upon request with either quasi-triangular or quasi-rectangular outputs at purchase time. Positive polarity piezoelectric devices are required with this instrument. When viewing the individual outputs, short cable and high input impedance recorders are required to preserve the high speed response capability of the pin mixer. The summed output can be transported to a distant recorder with minimal loss of the signals' high frequency components, making use of a 50 fast risetime line driver. See other side of data sheet for the basic schematics of the quasi-triangular and quasi-rectangular pulse characteristics.

The units basic features are:

1. 115/230 AC power input. No batteries.
2. Aluminum chassis for rack mount or table use.
3. Twelve identical dual-mode pin channels: shorting or piezoelectric modes (front panel switchable).
4. Continuously adjustable charge voltage from -30 to -300 volts with front panel control and digital voltage readout.
5. Dual output capability: Positive individual Hi-Z output with amplitude coding capabilities (0-10 Volts in steps of 1 Volt) for each channel (front panel switchable) and simultaneous 50 summation output for all channels with individual pin polarity coding capabilities (front panel switchable) - Polarity coding available at summation output only-.

**\*\*SEE REVERSE SIDE FOR BASIC SCHEMATIC**

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