MU-TRON PHASOR INSTRUCTIONS

Congratulations on your purchase of the Mu-tron Phasor by Musitronics Corporation. This product has been designed and manufactured to provide years of dependable service, and its advanced circuit techniques result in a freedom from distortion, low noise, and wide sweep range unique among phasing devices.

CONTROLS:

The ON-OFF switch controls the AC power to the unit. The rocker is illuminated in the ON position.

The DEPTH control is a three-position switch which adjusts the depth of the phasing effect by varying the sweep range. Its positions are low (L), medium (M), and high (H), the H position corresponding to the widest sweep range.

The SPEED control adjusts the rate of sweep of the phase shift effect between approximately five seconds per sweep and less than 0.1 seconds per sweep. .

The BY-PASS foot switch (undesignated), located on the sloping front section of the panel, permits the phasing effect to be switched either in or out without affecting either the level or the tonal characteristics of the signal.

OPERATION:

Experiment with various settings of the DEPTH switch and the SPEED control for different effects. The H position of the DEPTH switch is particularly useful for dramatic effects with slow speeds and full chords. The M position sweeps over a lower frequency range, and works well with arpeggios at low and medium speeds. The L position provides a much reduced sweep range, and is used for subtle effects or to simulate a "rotating speaker" sound or vibrato at higher settings of the SPEED control.

HOW DOES THE MU-TRON PHASOR WORK?

Every musical signal consists of a number of different spectral components. The Mu-tron Phasor periodically varies the length of delay of a time-delayed audio signal and re-combines it with the original signal.

This is the effect known as "phasing". It is the result of the auditory sensation of a sweeping series of reinforcements and

cancellations of the frequency components of the signal itself.

The ear's perception of the sweeping cancellation and reinforcement, together with the slight frequency vibrato caused by the varying of the delay time, is the "spacy" signal that the Mu-tron Phasor produces.

SPECIFICATIONS:

Input Impedance: 390 K ohm unbalanced.
Output Impedance: 600 ohms unbalanced.
Gain: Unity.
Signal Handling Capability: 1.0 volts RMS, 2.8 volts P-P.
Phase Depth Switch: Lo, Med, Hi ranges.
Phasing Rate: 0.16 Hz to 12 Hz, continuously variable.
Effect Cancel Switch: Foot switch between impedance compensated signal and phased signal.
AC Power Requirements: 115 volts AC, 60 Hz, 5 watts.
Dimensions: 8-3/4" long x 5" wide x 3-1/8" high.
Weight: 3-3/4 lbs. Made in U.S.A.
Warranty: 1 year on parts and labor.

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