

INTRODUCTION

The AO-3001C sinewave oscillator oscillated the audio signal in frequency from 10Hz to 1MHz in 5 overlapping ranges.

In most measurements, this oscillator can be used without a external frequency counter because the output frequency is direct readout by 4digit green L.E.D display.

The oscillator has a push button key S.W for range selection and the easy operable step attenuator.

This compact and light weight instrument is very useful for R&D laboratories, factory, and field service of various electronic equipment as a signal source for high performance audio instruments.

ELECTRICAL SPECIFICATIONS

FREQUENCY RANGE : 10Hz to 1MHz, IN 5 decade steps, variable.
control 10 : 1(overlapping ranges.)

× 1 RANGE : 10Hz to 100Hz
× 10 " : 100Hz to 1KHz
× 100 " : 1KHz to 10KHz
× 1K " : 10KHz to 100KHz
× 10K " : 100KHz to 1MHz

FREQUENCY ACCURACY : 4 digit ± 1 count

■ SINE WAVE CHARACTERISTICS

OUTPUT VOLTAGE : 8Vrms or more(open circuit)
OUTPUT IMPEDANCE : Approx. 600 Ω or 50 Ω , selectable. ($\pm 5\%$)
(UNBALANCED)

FREQ. CHARACTERISTICS : ± 0.2 dB for 10Hz to 100KHz
(REF. 1KHz) : ± 0.5 dB for 100KHz to 1MHz

DISTORTION FACTOR : 500Hz-100KHz : 0.1%
: 50Hz-500KHz : 0.5%
: 10Hz-1MHz : 1.5%

■ SQUARE WAVE CHARACTERISTICS

OUTPUT VOLTAGE : 10V p-p or more.
OVERSHOOT : 2% or less(at 1KHz, MAX. output)
RISE AND FALL TIME : 200 nSec or less(at MAX. output)
DUTY RATIO : 50% $\pm 5\%$ (at 1KHz, MAX. output)

GENERAL INFORMATION

■ EXTERNAL SYNCHRONIZATION CHARACTERISTICS

SYNCHRONIZING RANGE : $\pm 1\%/V_{rms}$
 MAX. INPUT VOLTAGE : 10Vrms
 INPUT IMPEDANCE : Approx. 10K Ω

■ OUTPUT ATTENUATOR (MIN. 100dB)

4 STEP ATTENUATOR : 0dB, -10dB, -20dB, -40dB(Accuracy ± 1 dB)
 VARIABLE : -60dB or more

■ FREQUENCY COUNTER CHARACTERISTICS

FREQUENCY RANGE : 10Hz to 1MHz
 DISPLAY : 4 digit green L.E.D display
 SENSITIVITY : KHz RANGE : 100mV, MHz RANGE : 300mV
 INPUT IMPEDANCE : 1M Ω //25pF
 MAX. INPUT VOLTAGE : 150 Vrms(at 1KHz)
 TIME BASE : 3.579545 MHz
 ACCURCY : TIME BASE ERROR ± 1 COUNT

*Display and Decimal point position

SENSITIVITY	RANGE	DISPLAY	UNIT
100mV	$\times 1, \times 10$	9999	Hz
	$\times 100, \times 1K$	99.99	KHz
300mV	$\times 10K$	999.9	KHz

Table(1)

■ SPECIAL FUNCTION : 400Hz, 1KHz (usable in audio and modulation)
 Accuracy $\pm 0.5\%$

SUPPLIED ACCESSORIES

- 1. Operator's Manual..... 1
- 2. BNC to BNC cable 1
- 3. Power Cord 1
- 4. Spare fuse..... 1

* Specifications are subject to change without notice.