

**Specifications
for
AUDIO OSCILLATOR
Model OG-439A**



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1. GENERAL DESCRIPTION

The OG-439A audio oscillator has been designed to output audio frequencies in a range from 10 Hz to 20 kHz which can be continuously swept with a one-range logarithmically-scaled dial.

The oscillator has two types of outputs; one is the output of built-in power amplifier whose maximum output is 3 volts into a load of 8 Ω for an intermittent operation, and the other is a line output which can be used as the input signal of an external power amplifier.

The output of the built-in amplifier can be digitally read with a 4-digit panel meter on the front panel.

2. SPECIFICATIONS

- 1) Oscillation Frequency Range: 10 Hz to 20 kHz
- 2) Distortion Rate (THD):
 - (1) Built-in Power Amplifier Output: Into a load of 8 Ω , and output power of 1 W
Less than 0.20% (in the frequency range from 100 Hz to 10 kHz)
Less than 0.40% (in the frequency range from 10 Hz to 20 kHz)
 - (2) Line Output: Into an open load, and output voltage of 1 V
Less than 0.20% (in the frequency range from 100 Hz to 10 kHz)
Less than 0.40% (in the frequency range from 10 Hz to 20 kHz)
- 3) Accuracy of Frequency Sweeping Dial Scale: $\pm (8\% + 2)$ Hz by manual sweeping of the one-range logarithmically-scaled dial.
- 4) Output Level Deviation: ± 0.3 dB (in the frequency range from 10 Hz to 20 kHz) with the load set to open.
- 5) Max. Output Voltages:
 - (1) Built-in Power Amplifier Output: 3.00 V rms Output is connected to an 8 Ω load for an intermittent operation.
 - (2) Line Output: 1.00 V rms Output is connected to an open load.
- 6) Output Terminal Types:
 - (1) Built-in Power Amplifier Output: Standard screw-type terminals
 - (2) Line Output: Two types of jacks are provided. They are connected in parallel each other.
 - a) RCA pin jack
 - b) 3.5 stereo jack
- 7) Output Range Selector: Three ranges of $\times 1$, $\times 0.3$ and $\times 0.1$, $\pm 5\%$

- 8) Output Voltage Meter: 4-digit voltmeter of 0 to 9.99 V readable range
Accuracy in the range from 0.1 to 3.00 V: $\pm (3\% + 1)$ digit
- 9) Output Impedance of Line Output: 600 Ω , $\pm 10\%$
- 10) Operating Temperature and Humidity:
0 $^{\circ}\text{C}$ to 40 $^{\circ}\text{C}$, 50 % to 90% R.H., with no condensation
- 11) Power Requirements:
AC 100V, 110V, 120V, 200 V, 220 V, or 240 V $\pm 10\%$, 50/60Hz, approx. 15 W
One customer specified line voltage is set at the time of shipment from factory
by arrangement of the transformer taps.
- 12) Dimensions and Weight:
Excluding extrusions: 252 (W) \times 128(H) \times 160(D) mm
Including extrusions: 255 (W) \times 140(H) \times 190(D) mm
Approx. 2.7 kg
- 13) Accessories:
Power cord. 1 pc. Spare fuse. 1 pc.

Specification appearance for improving are times when it modifies without notice.