

Audio Generator



GAG-810 provides a convenient solution for low frequency (< 1MHz) signal generation, specifically for audio bandwidth. Intuitive and simple panel interface provides quick frequency and amplitude adjustment, with dial/key shortcuts to different ranges. Square wave generation covers digital application in addition to the traditional analog using sine wave. Distortion is kept at minimum level, especially at the audible frequency range: 0.02% or less distortion factor for 500Hz~20kHz. The external synchronization signal input helps collaborate with other measurement devices.

GAG-810 (1MHz)



FEATURES

- * Frequency from 10Hz ~ 1MHz
- * 0.02% Low Sine wave Distortion
- * 6 Steps Output Attenuator
- * EXT SYNC Function

SPECIFICATIONS

SINE WAVE CHARACTERISTIC

Frequency Range	10Hz ~ 1MHz, 5 Ranges
Frequency Indicator	Dial Scale
Frequency Accuracy	$\pm 5\% + 1\text{Hz}$ (at x10, x100)
Output Voltage	5 Vrms (600 Ω load)
Frequency Response	10Hz ~ 1MHz $\pm 0.5\text{dB}$ (at 600 Ω load)
Distortion Factor	Reference Frequency (1kHz) 500Hz ~ 20kHz : $\leq 0.02\%$ 100Hz ~ 100kHz : $\leq 0.05\%$ (x 10 range for 100Hz, x 1k range for 100kHz) 50Hz ~ 200kHz : $\leq 0.3\%$ 20Hz ~ 500kHz : $\leq 0.5\%$ 10Hz ~ 1MHz : $\leq 1.5\%$

SQUARE WAVE

Output Voltage	$\geq 10\text{Vpp}$ (no load)
Overshoot	$\leq 2\%$ (at 1kHz, max output)
Rise & Fall Time	$< 200\text{ns}$
Duty Ratio	50% $\pm 5\%$

EXT. SYNCHRONIZATION

Synchronizing Range	$\pm 1\%/V_{\text{rms}}$
Max. Allowable Input	15V (DC + AC peak)
Input Impedance	150k Ω

OUTPUT

Output Impedance	600 Ω
Output Attenuator	0, -10, -20, -30, -40, -50dB 6 ranges (accuracy $\pm 1\text{dB}$ at 600 Ω load)

POWER SOURCE

AC 100/120/220/230V $\pm 10\%$, 50/60Hz

DIMENSIONS & WEIGHT

130(W) x 210(H) x 292(D)mm, Approx 3 kg

ORDERING INFORMATION

GAG-810 1MHz Audio Generator with 0.02% Low Sine Wave Distortion

ACCESSORIES:

User Manual x 1, Power cord x 1, Test lead GTL-103 x 1

GAG-810

SIGNAL SOURCES

C36