

# 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 $\Omega$ load)
Frequency Response	10Hz ~ 1MHz $\pm 0.5\text{dB}$ (at 600 $\Omega$ load) Reference Frequency (1kHz)
Distortion Factor	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	< 200ns
Duty Ratio	50% $\pm$ 5%
EXT. SYNCHRONIZATION	
Synchronizing Range	$\pm 1\%$ /Vrms
Max. Allowable Input	15V (DC + AC peak)
Input Impedance	150k $\Omega$
OUTPUT	
Output Impedance	600 $\Omega$
Output Attenuator	0, -10, -20, -30, -40, -50dB 6 ranges (accuracy $\pm 1\text{dB}$ at 600 $\Omega$ load)
POWER SOURCE	
AC 100/120/220/230V $\pm 10\%$ , 50/60Hz	
DIMENSIONS & WEIGHT	
130(W) x 210(H)x292(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