



GAG-809/810 (1MHz)



FEATURES

- * Frequency from 10Hz ~ 1MHz
- * 0.02% Low Sine wave Distortion (GAG-810 Only)
- * 6 Steps Output Attenuator
- * EXT SYNC Function

GAG-809/810 provide 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 collaborating with other measurement devices.

SPECIFICATIONS

SINE WAVE CHARACTERISTIC	
Frequency Range	10Hz ~ 1MHz, 5 Ranges
Frequency Indicator	Dial Scale
Frequency Accuracy	$\pm (3\% + 1\text{Hz})$
Output Voltage	5 Vrms (600 Ω load)
Frequency Response	10Hz ~ 1MHz $\pm 0.5\text{dB}$ (at 600 Ω load) Reference Frequency (1kHz)
Distortion Factor	500Hz ~ 20kHz : $\leq 0.02\%$ (GAG-809 : $\leq 0.1\%$) 100Hz ~ 100kHz : $\leq 0.05\%$ (GAG-809 : $\leq 0.3\%$) (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	10Vpp or more (no load)
Overshoot	$\leq 2\%$ (at 1kHz, max output)
Rise & Fall Time	Less than 200nS
Duty Ratio	50% $\pm 5\%$
EXT. SYNCHRONIZATION	
Synchronizing Range	$\pm 1\%$ /Vrms
Max. Allowable Input	15V (DC + AC peak)
Input Impedance	150k
OUTPUT	
Output Impedance	600
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	
ACCESSORIES	
User Manual x 1, Power cord x 1, GTL-103 x 1	
DIMENSIONS & WEIGHT	
130(W) x 210(H) x 292(D)mm, Approx 3 kg	

ORDERING INFORMATION

GAG-809	1MHz Audio Generator
GAG-810	1MHz Audio Generator with 0.02% Low Sine Wave Distortion