

Specifications

(Reference Temperature: 23°C ± 1°C)

Operating Mode:

Sine wave, free-running with AGC

Frequency Range:

5Hz to 50kHz, (4 decades)
Variable control 10:1,
overlapping the ranges

Frequency Drift:

(Frequency control in center position)
15 min. 0.08% (50kHz range)
8 hrs. 0.6% (50kHz range)
15 min. 0.08% (other ranges)
8 hrs. 0.5% (other ranges)

Display:

3-digit 7-segment LED display
Accuracy: ±1 Digit

Distortion:

5Hz to 20Hz : max. 0.03%
20Hz to 10kHz : max. 0.01%
1kHz : typ. 0.005%
10kHz to 20kHz : max. 0.03%
20kHz to 50kHz : max. 0.05%

Output (short-circuit-proof):

Output Voltage: 1.5V into 600Ω
Output Impedance: approx. 600Ω
Amplitude Flatness: max. ±0.2dB
(5Hz to 50kHz)
Attenuation: min. 60dB
2 Attenuators 20dB ±0.2dB each
Variable control: 0dB to -20dB min.
Amplitude Stability: 0.12% (4 hours)

Synchronizing Output (short-circuit-proof)

Output Voltage: 2V_{pp} Sine wave
Output Impedance: approx. 1kΩ

General Information:

Output floating
(ground connection switchable)
Supply voltages (from HM8001):
+5V/120mA;
+15V/30mA;
-15V/30mA
(Σ = 6.3W)
Operating conditions: 0°C to +40°C
max. relative humidity: 80%
Dimensions (without 22-pin flat connector):
W 135, **H** 68, **D** 228mm
Weight: approx. 650g

Values without tolerances are meant to be guidelines and represent characteristics of the average instrument.

Subject to change without notice

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Sine Wave Generator HM8037

- Frequency Range: 5Hz to 50kHz
- Distortion: <0.01%
- Digital Frequency Readout, 3 Digit
- Output Voltage: ≥1.5V into 600Ω
- Output Floating (switchable)
- High Amplitude Stability

The **HM8037 Sine Wave Generator** is a high quality sinusoidal signal source for applications requiring high stability and spectral purity for audio/video applications. The **low distortion factor**, low noise level and excellent flatness render this instrument suitable for measurements of **linear** or **non-linear distortions** in high-grade audio systems. Simplicity of operation of the **HM8037** is another important feature of this instrument.

The generator frequency can be precisely tuned by means of the **3-digit** frequency display. A resolution as fine as **0.1Hz** can be obtained in the lower frequency range. High precision components are used in the manufacture of this product, in the frequency generating network circuitry, which assures an exceptionally **high stability**. The flat amplitude of **±0.2dB** eliminates the need of constantly monitoring the voltage level during frequency response testing.

The output voltage of the **HM8037** is adjustable over a **60dB** range for examination of sensitive Hi-Fidelity amplifiers. The 600Ω output can be switched from chassis (earth) to floating signal ground, depending on user/circuitry requirements. The **HM8037**, in combination with the **HAMEG HM8027** Distortion Meter, is suitable for precision distortion measurements. An entire test system can be created with these two instruments, which can perform high quality audio/video system measurements.

Accessories supplied
Operators Manual

Optional accessories
BNC test cable HZ33, HZ34
50Ω through termination HZ22