Specifications

(Reference Temperature 23°C ± 1°C)

Operating Mode:

Sine wave, free running with AGC

Frequency Range:

20Hz to 20MHz, (6 Decade Steps)
Variable Frequency Adjustment: 10:1
(Overlapping Ranges)

Frequency Drift:

(medium position of frequency control)

15 min.	0.5%	(20MHz range)
8 hrs.	0.3%	(20MHz range)
15 min.	0.05%	(2MHz + 200kHz range)
8 hrs	0.05%	(2MHz + 200kHz range)
15 min.	0.1%	(other ranges)
8 hrs.	0.1%	(other ranges)

Display:

4 digit LED display
LED: indicators for Hz/kHz/MHz
Accuracy: ±1 Digit

Distortion:

20Hz - 500kHz: max. 0.2%
500kHz - 1MHz: max. 1%
1MHz - 20MHz: max. 2.5%

Outputs (short circuit proof):

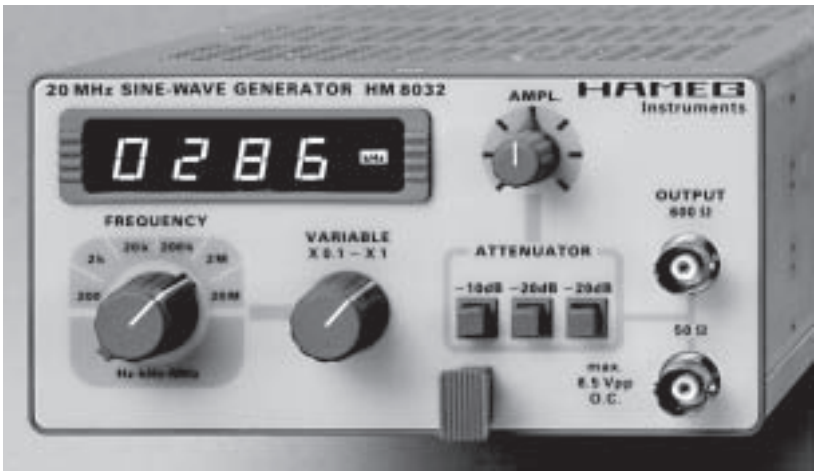
Output Voltage: 1.5V into 50Ω, 3V o.c.[1)]
Output Impedance: 600Ω and 50Ω
Amplitude Flatness (Ref. 1kHz)**:**
20Hz to 2MHz: max. ±0.2dB
2MHz to 20MHz: max. ±0.5dB
Attenuation: 60dB max.
3 Attenuators: –10/–20/–20dB with ±0.5dB
Variable Control: 0dB to –10dB
Amplitude Stability: 0.12% (4 hours)

General Information:

Supply Voltages (from HM8001-2):
+5V/150mA
+12V/150mA
–12V/160mA
(P = 4.6W)
Operating Conditions: +10°C to +40°C
max. relative humidity: 80% (no condensation)
Dimensions (without 22 pin flat connector):
W 135, **H** 68, **D** 228mm
Weight: approx. 650g

[1)] o.c. = open circuit

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



Sine Wave Generator HM8032

- **Frequency Range: 20Hz to 20MHz**
- **Distortion: <0.2% (20Hz-500kHz)**
- **Digital Frequency Display**
- **Output Voltage: 1.5V_{RMS} into 50Ω**
- **Output Attenuator: 60dB max.**
- **Amplitude Flatness: ±0.2dB**
- **2 Outputs (Impedance 50Ω / 600Ω)**

The **HM8032** design is based on a "**Wien-Bridge**" oscillator circuit. Its remarkable features are the frequency range covering **six decades**, the amplitude flatness, and very **low distortion**. It is especially valuable for wideband measurements on linear amplifiers, filters, and systems up to approx. **20MHz**. With its high quality signal source, the **HM8032** is equally suitable for many other applications, e.g. as a **test oscillator** in audio and video distortion measurements.

The generator's frequency can be exactly tuned with the use of the built in **4 digit** frequency counter. Accuracy of the displayed values is **±1 digit** over the entire frequency range.

Two outputs are provided, one with **600Ω** and the other with **50Ω** impedance. Both outputs are **short circuit proof**. Attenuation of the output amplitude is adjustable up to **60dB** max. with one variable and 3 fixed, switchable attenuators (a variable –10dB, one –10dB and two –20dB). The front panel is clearly labeled and allows personnel to rapidly learn to operate the generator with a minimal amount of training.

Accessories supplied

Operators Manual

Optional accessories

BNC test cable HZ33, HZ34
50W through termination HZ22

230403