

## 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.<sup>1)</sup>

**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)

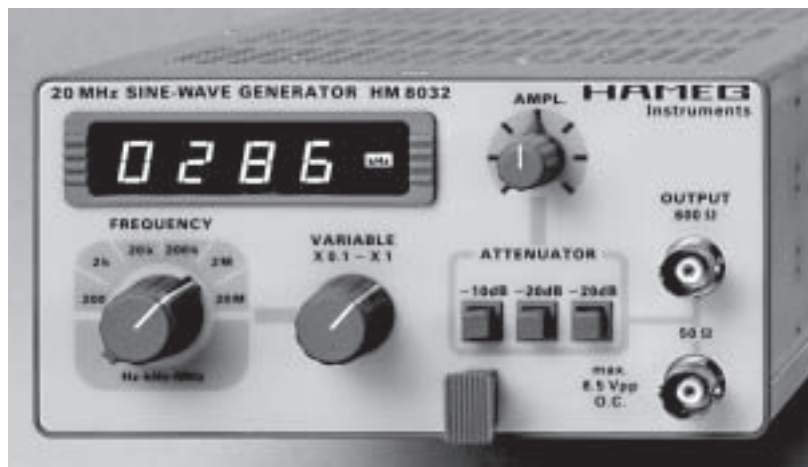
**Dimensions (without 22 pin flat connector):**

**W** 135, **H** 68, **D** 228mm

**Weight:** approx. 650g

<sup>1)</sup> 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<sub>RMS</sub> 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