HAMEG

Specifications

(Reference Temperature: $23^{\circ}C \pm 1^{\circ}C$)

Frequency Range:

Frequency Range: 20Hz to 20kHz Range Steps: 3 Decade Steps Variable Frequency Control: 10:1 (overlapping ranges)

Distortion Measurement Range:

Measurement Range: 0.01% - 50% divided in 2 ranges Full Range: 10% and 100% Resolution: 100% Range: 0.1% 10% Range: 0.01%

Accuracy:

100% Range: ±5%±1 digit for k≤10% 10% Range: ±5%±1 digit for k≤1%

Residual Distortion and Noise:

 \leq 0.5 digit

Fundamental Rejection:

30dB greater than measured distortion factor or ≥70dB in the 100% range or ≥90dB in the 10% range

Input Voltage:

min. for 100% Calibration: 300mV max. for 100% Calibration: 50V

Input Impedance:

 $100 k\Omega$

Monitor Output:

Output Voltage: 1mV/digit (short circuit proof) **Output Impedance**: 10kΩ

Attenuators:

(1 pushbutton switch) –20dB (1 pushbutton switch) –10dB (1 continuous variable attenuator) –15dB

General Information:

1 switch selectable high-pass filter 1kHz, 12dB/Octave Supply Voltages (from HM8001): +12V/60mA -12V/60mA +5V/100mA ($\Sigma = 1.94W$) **Operating conditions:** 0°C to +40°C Max. Relative Humidity: 80% **Dimensions** (without 22-pin flat connector): W135, H68, D228mm

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

Subject to change without notice

Weight: approx. 650g

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MODULAR SYSTEM 8000



Distortion Meter HM8027

- Frequency Range: 20Hz to 20kHz
- Resolution: 0.01%, maximum
- Display: 3 Digit LED
- Automatic Frequency Fine-Tuning
- Monitor Output for Distortion Analysis

The **HM8027** Distortion Meter was developed for the measurement of harmonic distortion in the audio frequency range. Due to its **low inherent distortion** of **0.005%** (1kHz), it is ideally suited for tests and measurements of high-grade audio systems.

The digital display allows distortion readout with a maximum resolution of **0.01%**. In addition, the **HM8027** has the option to visually **check the residual distortion** of the measured signal on an oscilloscope connected to its control output. This feature enables a qualitative evaluation of the reading for signals with noise or cross-over distortion beyond the indicated distortion value.

Test frequency adjustments are performed via a rotary dial and push-button frequency range selectors. The **automatic frequency fine-tuning** with a 15% capture range ensures fast and easy operation of the **HM8027**.

The Distortion Meter **HM8027**, combined with the Sine Wave Generator **HM8037**, provides a complete test system to be used primarily in the audio frequency range. The clearly arranged front panel assures problem-free operation.

Accessories supplied Operators Manual

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Optional accessories BNC test cable HZ33, HZ34 Adaptor BNC-Banana HZ20

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