

Distortion Meter HM8027



Frequency range 20 Hz to 20 kHz

Resolution up to 0.01 %

Low inherent distortion of 0.005 %

Automatic frequency fine tuning (capture range 15 %)

Control output for residual distortion measurement

A complete measurement system for AF measurement equipment in combination with the HM8037

Mainframe HM8001-2 or HM8003 required for operation

Mainframe HM8001-2



HZ32 Test cable



HM8037 Low-distortion sine wave generator



Distortion Meter HM8027

Valid at 23 °C after a 30 minute warm-up period

Frequency range

20 Hz - 20 kHz
subdivided into 3 ranges
variable frequency control 10:1, overlapping ranges

Distortion measurement range

0.01 % - 50 %, subdivided into 2 ranges

Full range: 10 % and 100 %

Display resolution: 100 % range: 0.1 %
10 % range: 0.01 %

Display accuracy

100 % range: $\pm 5\% \pm 1$ digit for $k \leq 10\%$
10 % range: $\pm 5\% \pm 1$ digit for $k \leq 1\%$

Inherent distortion + noise

≤ 0.5 digit

Fundamental rejection

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

Input voltage

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

Input impedance

100 k Ω

Monitor output

Output voltage: 1 mV/digit (short-circuit proof)
Output impedance: 10 k Ω

Input attenuation

1 constant attenuator - 20 dB
1 constant attenuator - 10 dB
1 variable attenuator - 15 dB

Miscellaneous

1 selectable high-pass filter: 1 kHz, 12 dB/octave

Power supply (from mainframe): +12 V/60 mA
- 12 V/60 mA
+5 V/100 mA
($\Sigma = 1.94$ W)

Operating temperature: +10 °C to +40 °C

Max. relative humidity: 80 % (without condensation)

Dimensions (W x H x D) (without 22-pole flat plug):
135 x 68 x 228 mm

Weight: approx. 0.65 kg

Accessories supplied: Operator's Manual

Optional accessories: HZ33/HZ34 BNC Test Cable, HZ20 BNC banana adapter, HZ10 Silicone test leads

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