

## 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 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

$\leq 0.5$  digit

### Fundamental rejection

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

### Input voltage

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

### Input impedance

100 k $\Omega$

### Monitor output

**Output voltage:** 1 mV/digit (short-circuit proof)  
**Output impedance:** 10 k $\Omega$

### 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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