

# AH979G

## DISTORTION METER / OSCILLATOR



### General

The AH979G is a combination distortion meter and 20 Hz to 200 kHz oscillator. The distortion measurement frequency is ganged automatically to the oscillator frequency. Voltage, level, and noise meter functions are also provided.

### Specifications

#### ● Oscillator section

Frequency range 20 Hz to 200 kHz, in 5 ranges

Frequency accuracy  
±2%

Output level -80 to +20 dBm

Output impedance  
600 Ω, balanced

Frequency response  
±0.5 dB

Distortion (at +10 dBm output level)  
≤ 0.1% : 50 Hz to 100 kHz  
≤ 0.5% : 20 Hz to 200 kHz

#### ● Measurement section

##### • Distortion measurement

Input impedance 600 Ω, 10 kΩ; balanced  
100 kΩ; unbalanced

Fundamental frequency range  
At 100 kΩ unbalanced input 20 Hz to 200 kHz,  
in 5 ranges

At 600 Ω and 10 kΩ balanced input 50 Hz to 20 kHz

Harmonic response  
At 100 kΩ unbalanced input ±0.5 dB, up to 200 kHz  
±1.0 dB, up to 1 MHz

At 600 Ω and 10 kΩ balanced input ±0.5 dB, up to  
20 kHz ±1.0 dB, up to 60 kHz

Measurement range  
0.1, 0.3, 1, 3, 10, 30, 100% full scale

Input level range -15 to +42 dBm (0.14 to 100 V)

Accuracy ±5% of full scale

##### • Level & voltage measurement

Measuring range -70 to +40 dBm (0.3 mV to 100 V)

Range dBm: -60, -50, -40, -30, -20, -10, 0

V : 1, 3, 10, 30 mV, 0.1, 0.3, 1

Built-in attenuator for use with signals  
> 1 V and 0 dBm

##### Frequency response

At 100 kΩ unbalanced input  
±0.5 dB, 20 Hz to 1 MHz

At 600 Ω and 10 kΩ balanced input  
±0.5 dB, 20 Hz to 20 kHz

±1.0 dB, 20 to 60 kHz

Accuracy ±5% of full scale

##### • Noise measurement

Measuring range 0 to -70 dB referenced to signal -15 to  
+42 dBm

Range -60, -50, -40, -30, -20, -10, 0 dB

##### Frequency response

At 100 kΩ unbalanced input  
±0.5 dB, 20 Hz to 500 kHz

±1.0 dB, 20 Hz to 1 MHz

At 600 Ω and 10 kΩ balanced input  
±0.5 dB, 20 Hz to 20 kHz

±1.0 dB, 20 Hz to 60 kHz

Accuracy ±5% of full scale

##### ● General specifications

Power supply AC 100, 120, 220, 240 V ±10%,  
50/60 Hz

##### Power consumption

Approx. 15 VA

##### Operating temperature range

0°C to 40°C

Relative humidity 25% to 90% RH (non-dewing)

Dimensions 430 (W) x 199 (H) x 360 (D) mm

Weight Approx. 12 kg

##### Accessories

Supplied 110 plug x 2

Optional L-200 rack mounting adaptor