

AH979H

AUDIO INSTRUMENTS

Distortion Meter / Oscillator

(Production on Order)



■ General

The AH979H is a combination distortion meter and audio oscillator.

The distortion measurement frequency is ganged automatically to the oscillator frequency. Voltage, Level, and Noise meter function also provided.

This instrument is most suitable for testing instrument for maintenance and adjustment of various wireless equipment, broadcast equipment, studio equipment.

■ Futures

- ◇ Distortion measurement in the wide range is possible. (20Hz~200kHz)
- ◇ The fundamental rejection filter is made by Wien bridge circuit that can measure stable in the wide range.
- ◇ The fundamental rejection filter is automatically adjusted linked with the distortion measurement frequency of the oscillator frequency.
- ◇ Balance input/output uses a transformer.
- ◇ Sine wave oscillator (20Hz - 200kHz) to generate a stable, low distortion.
- ◇ Output level can be set arbitrarily in the range -80dBm~+20dBm

■ Specifications

◇ Oscillator Section

Frequency range	20Hz~200kHz
	3 digits steps and 5 ranges
Frequency accuracy	Less than $\pm 2\%$
Output level	-80dBm~+20dBm
Output impedance	600 Ω $\pm 10\%$ balance
Accuracy of output attenuator	Less than $\pm 0.3\text{dB}$ at 20Hz~200kHz When the output level is -30dBm~-70dBm, less than $\pm 0.5\text{dB}$ at 20Hz~20kHz
Deviation of output level	$\pm 0.5\text{dB}$
Distortion	When the output level is +10dBm, Less than 50Hz~100kHz 0.1% Less than 20Hz~200kHz 0.5%

◇ Distortion Measuring Section

Input impedance 600Ω balanced less than ±1%
10kΩ balanced less than ±10%
100kΩ unbalanced less than ±10%
Less than 100pF parallel capacity

Measurement of Distortion

Fundamental frequency
20Hz~200kHz, 5 ranges
When balanced input: 50Hz~20kHz

Fundamental frequency rejection ratio
20Hz~100kHz : more than 65dB
100kHz~200kHz : more than 60dB
When balanced input: 50Hz~20kHz

Measurement range of distortion
0.1/0.3/1/3/10/30/100% full scale

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

Noise measurement accuracy
Less than ±5% full scale for all ranges

Input attenuation 20dB/40dB
accuracy Less than ±0.2dB when 1kHz

Level and Voltage measurement

Measurement range
dBm: -70dBm~+40dBm (0dBm=0.775V)
-60/-50/-40/-30/-20/-10/0dBm full scale

V: 0.3mVrms ~ 100Vrms
0.001/0.003/0.01/0.03/0.1/0.3/1V full scale

Frequency characteristics Less than ±0.5dB at 20Hz~1MHz
When balanced input: Less than ±0.5dB at 20Hz~20kHz,
Less than ±1dB at 20Hz~60kHz

Accuracy Less than ±5% of full scale for all ranges

Noise measurement

Measurement range 0dB~-70dB for signals of -15dBm~+42dBm
-60/-50/-40/-30/-20/-10/0dB full scale

Frequency characteristics
Less than ±0.5dB at 20Hz~500kHz,
Less than ±1dB at 20Hz~1MHz

Accuracy Less than ±5% of full scale for all ranges

◇ General Specifications

Temperature and Humidity 0°C~40°C, 25%~90%RH (No condensation)

Power 100/120/220/240V AC ±10% switching, 50Hz/60Hz Max 15VA (App)

Dimensions 426 (W) × 199 (H) × 360 (D) mm

Weight Approx. 12kg

Accessories Power cable - 1, 3P-2P adopter - 1, Operating manual - 1

Noted : When ordering, please specify the power supply voltage.



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