Audio tester Model OAT-901

1. Summary

OAT-901 system is audio tester generating a signal and measuring the captured the signal by digital processing.

This system consists of Windows PC and an equipment measuring the signal by USB interface.

This system is in the configuration of the main unit and the power amplifier unit. Power amplifier unit can be selected from 2W type (AP-1904), 20W type (AP-1902), 100W type (AP-1903).

2. Measurement product

Speaker

3. Measurement item

- · Sensitivity
- · Frequency characteristic
- · Impedance frequency characteristic

- Impedance
- Fo

· Polarity judgment

- Total harmonic distortion
- · Rub and Buzz

4. Specifications

Output part

• Frequency range: 20Hz to 40kHz

· Sweep time: 0.5S to 10S

· Drive signal: Sine wave log sweep

• Out put voltage: 2W type (AP-1904) 0.1V to 4.000V 0.001V step

20W type (AP-1902) 1V to 13.00V 0.01V step 100W type (AP-1903) 1V to 30.00V 0.01V step

· Max electric power: 2W / 20W / 100W

• Minimum load impedance : 2W type (AP-1904) 4Ω

20W type (AP-1902), 100W type (AP-1903) 1.8Ω

Input part Condenser microphone input

• Microphone input range: 140, 130, 120, 110, 100, 90, 80dB seven ranges

Frequency range : 20Hz to $40\mathrm{kHz}$

 \cdot Impedance input range \vdots one range

Measurement range : 2Ω to 100Ω

• Fo (Frequency of the peak point of impedance frequency characteristic.)

Measurement frequency range: 25Hz to 20kHz

· Total harmonic distortion

Frequency range: 50Hz to 5kHz (Analysis frequency range: 100Hz to 40kHz)

Harmonic range: The total of 2nd to 10th

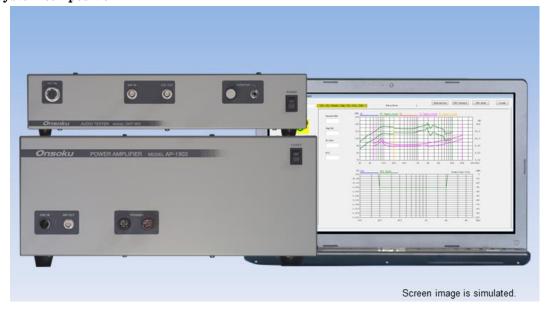
Measurement range: 0.01% to 100% 100dB span

· Rub and Buzz measurement

Frequency range: 50Hz to 1kHz (Analysis frequency range: 100Hz to 40kHz)

Harmonics selection range 2nd to 35th setting of 4blocks is possible.

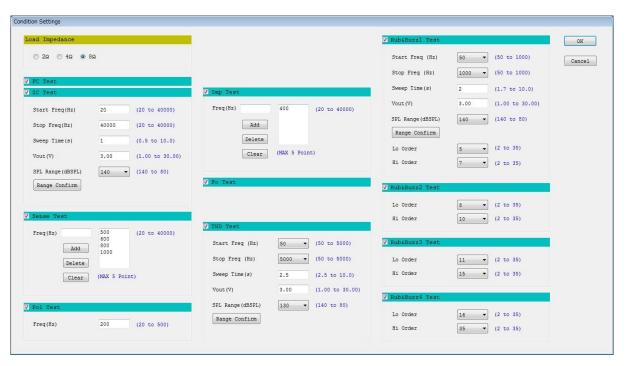
5. System composition



*Photos of the power amplifier unit is 100W type (AP-1903).

- · Main unit
- · Laptop computer
- Power amplifier unit 2W type (AP-1904) / 20W type (AP-1902) / 100W type (AP-1903) **Selected from the above three type.
- · 1/2inch standard condenser microphone

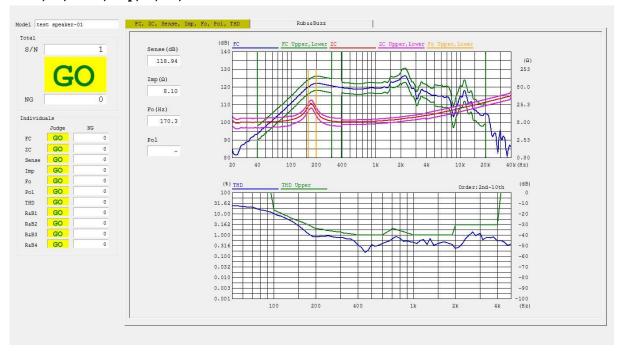
6. Measurement condition setting screen



7. Measurement result screen

(Good judgement)

FC,ZC,Sense, Imp,Fo,Pol,THD characteristics screen

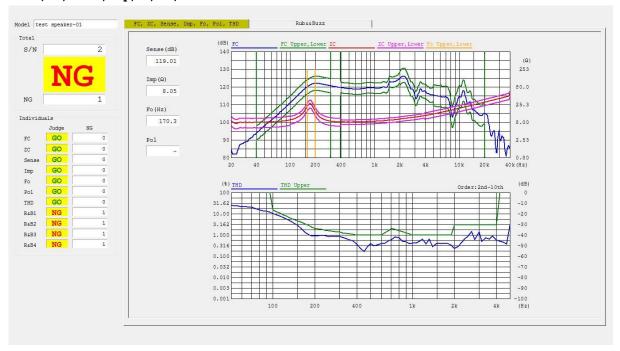


Rub and Buzz characteristics screen



(Rub and Buzz NG judgement)

FC,ZC,Sense,Imp,Fo,Pol,THD characteristics screen



Rub and Buzz characteristics screen



Design and specifications are subject to change with out notice.

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