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SHENZHEN MEIRUIKE ELECTRONIC TECHNOLOGY CO., LTD

RK-1212BL+ AUDIO SWEEPER

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1212 series of audio frequency sweep signal generator adopt the advanced voltage controlled oscillator circuit to generate stable and low-distorted sine wave signal. The output amplitude and frequency are used in digital display, sweep frequency range can reach more than 1:1000, the beginning and the end of the sweep frequency range can be set arbitrarily. This machine has the power on delay output, short-circuit protection function. Also designed to test any type, dimensions, the impedance of the speaker, headphone, "positive" and "negative" polarity of dynamic receiver function. Simple operation and widely used in acoustics, telecommunications and other aspects, especially for loudspeaker production and sound box manufacturing plant. This instrument can generate the audio signal for the audio listening. It can rapidly and accurately distinguish positive (negative) polarity of horn and the loudspeaker's pure tone index.

One、Technical parameters A

Audio Frequency、Sweep Frequency

1.1 Frequency range: 20Hz-20KHz。

1.2 Frequency display errors: Display values $1 \times 10^4 \pm 1$ word。

1.3 Sine wave output amplitude:

RK-1212 BL⁺ type: 0---

12.8vrms

8Ω load

1.4 The output voltage meter display error $\pm 10\%$.

1.5 The sine wave frequency $\pm 0.4\text{dB(KHZ)}$ state.

1.6 Sine wave distortion $\leq 0.5\%$, 100HZ-20KHZ, Other frequency bands $\leq 0.8\%$.

1.7 Output power: 20W, 8Ω load

Sweep frequency

1.8 mode: logarithms

1.9 Sweep frequency ratio: 1:1000

1.10 Sweep frequency time: 1S-20S

1.11 Sync output: TTL square wave

Working power

1.12 supply: AC220V $\pm 10\%$ 50HZ

1.13 Working condition: temperature: 0-40℃;

Humidity is not greater than: RH90%;

Atmospheric pressure: 86-105kpa.

B. Main parameters of polarity test function

1.1 Pulse width 0.4ms.(0.2ms)

1.2 Pulse amplitude $> 10\text{VP-P}$ (Output amplitude for "H") Output amplitude for "H": Use for general loudspeaker; "L": Use for polyester resin (MYLAR) loudspeaker or dynamic receiver; "M": Use for dome loudspeaker.

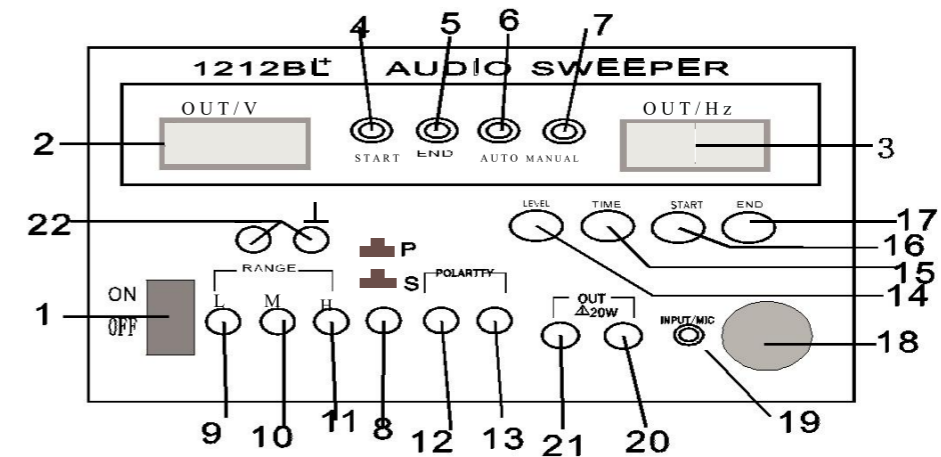
1.3 Sensing microphones: capacitor microphone.

1.4 Buzzer: It can switch by "+" "-" to alarm.

1.5 Test sensitivity $\geq 25\text{cm}$.

1.6 Test speed: 0.2 seconds.

Two 、 The description of faceplate



1. Power switch(POWER).
2. Digital voltage meter(V).
3. Frequency display(HZ).
4. Starting selector switch(START)
5. Terminal selector switch (END)
6. Automatic frequency sweep switch (AUTO)
7. Manual frequency sweep switch (MANVAL)
8. Sweep frequency, polarity switch (P/S)
9. Low file of polarity test output (L)
10. Middle file of polarity test output (M)
11. High file of polarity test output (H)
12. 13."+" "-" buzzer cooperate with the polarity indicating alarm switch,"-" polarity indicator lamp light on or "+" polarity indicator lamp light on
13. Output amplitude adjustment (LEVEL)
14. Sweep speed adjustment (TIME)
15. Starting point adjusting knob (START)
16. Terminal adjusting knob (END)
17. Manual adjusting knob (MANUAL)
18. Sensor microphone input (MIC)
19. Test voltage output port (red,black wiring terminal)
20. Polarity indicator lamp

Three、 Usage method

A. Sweep frequency test method

3.0 Sweep frequency test switch ⑧ pop-up (S/P)

3.1 The output amplitude (LEVEL) is adjusted to the minimum before starting up,and then the power supply is switched on,preheat for 10 minutes.

3.2 According to the requirements of measured speaker,select the appropriate frequency of starting point and the end point:(the ending frequency is higher than the starting frequency,on the contrary it will stop frequency sweep)

3.3 Connected to the line,adjust the "LEVEL" button,the output voltage is not greater than B type 12.8Vrms,D type 18Vrms,E type 22Vrms,F type 25.5Vrms,G type 28.5Vrms

3.4 According to the requirement to adjust the frequency sweep time, press the sweep switch to enter the sweep status.

3.5 Such as the manual adjustment,press the switch ⑦(MANVAL),and adjust(18). (Manual frequency range is limited between the starting point and end point.)

. Polarity test:

1.1 The ⑧P/S switch is pressed,the output port for the polarity test pulse signal,when the switch ⑧ didn't pressed,the test output port for sweep signal.Press the external remote control switch can proceed the polarity determination.

1.2 The output amplitude choose from low,middle,high,to change the test level of speaker.

High “H”,use for audio speakers generally;

Low “L”: polyester resin (MYLAR) speaker;

Middle “M”:use for dome speaker.

1.3 Sensor microphone:the plug input the "MIC" when testing.

1.4 Connecting according to the above items,move the measured speaker closer the sensing microphone,the light-emitting diode light (pressing one of "+", "-" polarity switch) red "+" light-emitting diode light express that speaker polarity of the output line red terminal is "+",green "-" light-emitting diode light express that the speaker polarity of the output line red terminal is "-".(POLARFTV).

1.5 Buzzer selector switch,cooperate with the light-emitting diode,press the buzzer switch "+",that the red lamp light on,buzzer alarm,press the the buzzer switch "-",that the green lamp light on,buzzer alarm.

Four 、 Accessory

4.1 Instruction manual	one copy
4.2 Power line	one stick
4.3 Sensor microphone	one stick
4.4 Output line	one pair