

I. General description

MP—1212 series audio sweeper generators are taken advanced pressure-control oscillation circuit to generate a stable, low-distortion sine wave. Output amplitude and frequency are displayed by LED windows, the width of sweeping reach to over 1:1000, the sweeping start point and end point can be set arbitrarily within the scope from 20Hz~20kHz. (Max output power :B model、C model≥20W、D model≥40W、E model≥60W、F model≥80W、G model≥100W). It is characteristic with time-lapse and short-protection functions, Operate simply, It is widely used in audio-electronics and telecommunication fields, it is particularly used in speaker, microphone and sound box manufacturing.

II. Techno-index

- 1、 Frequency range: 20Hz~20kHz
- 2、 Frequency display error: $1 \times 10^{-4} \pm 1$ digit
- 3、 Sine wave output amplitude:

MP—1212 B model	: 0~12.8Vrms	8Ω	LOAD
MP—1212 D model	: 0~18Vrms	8Ω	LOAD
MP—1212 E model	: 0~22Vrms	8Ω	LOAD
MP—1212 F model	: 0~25.3Vrms	8Ω	LOAD
MP—1212 G model	: 0~28.3Vrms	8Ω	LOAD
- 4、 Output voltage meter error : $\pm 10\%$
- 5、 Sine wave response: ± 0.4 dB (1kHz state)
- 6、 Sine wave distortion $\leq 0.5\%$ (100Hz~20kHz frequency width)
others frequency width: $\leq 0.8\%$
- 7、 Output power: B model≥20W、D model≥40W、E model≥60W、F model≥80W、G model≥100W (8Ωload)
- 8、 Sweeping mode: logarithm ;
- 9、 Sweeping rate: $\geq 1: 1000$
- 10、 Sweeping time: 1s~20s
- 11、 Synchronization: TTL square wave
- 12、 Working voltage: AC 110V $\pm 10\%$ 50Hz
- 13、 Working environment: temperature: 0~40℃ ; humidity: $\leq 90\%$ RH
atmospheric pressure: 86~105kPa

III. panel description

- 1、 Power
- 2、 Digital voltage meter
- 3、 Frequency display
- 4、 Start point selection

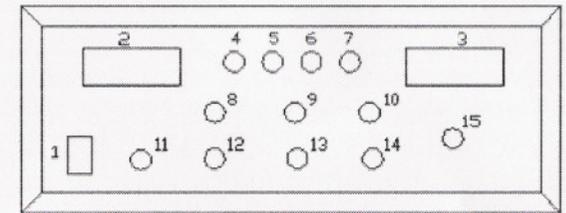
- 5、 End point selection
- 6、 Auto sweeper switch
- 7、 Manual sweeper switch
- 8、 sweeping rotary knob
- 9、 Start-point adjustor
- 10、 End-point adjustor
- 11、 Amplitude
- 12、 13、 Output terminals
- 14、 Synchronization TTL output
- 15、 Manual adjustor
- 16、 Radiator
- 17、 ventilator
- 18、 Power input plug

IV. Operation

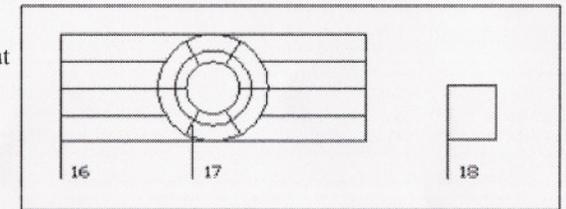
- 1、 Set output amplitude to the minimum before turn on the instrument, and then warm-up more than ten minutes.
- 2、 Set suitable start-point and end-point according to the requirement of tested speaker. (End-point frequency should be above the start-point or else sweeper will stop automatically)
- 3、 Connect instrument cables and adjust output amplitude to be lower than output voltage (8Ω load), output voltage \leq B model 12.8Vrms (\leq D model 18Vrms, \leq E model 22Vrms, F model 25.3Vrms, G model 28.3Vrms); Adjust "AMPLITUDE" rotary knob to be lower than output voltage (4Ω load), output voltage \leq B model 9Vrms (\leq D model 12.5Vrms, \leq E model 15.5Vrms, \leq F model 17.9Vrms, \leq G model 20Vrms)
- 4、 Adjust sweeping time according to test requirement and then press down sweeping switch (6) to enter sweeping status.
- 5、 To press down manual switch (7) to adjust (15). (Notice: manual adjustment can be used in the scope of start-point and end-point).
- 6、 Connect output TTL signal with low-frequency characteristic tester to test frequency characteristics of the acoustics system

V. Accessories

- 1、 User manual 1 piece ;
- 2、 Power wire 1 piece ;
- 3、 Output wire 1 pair



Front panel



Behind panel