

## TH1312-20/1312-60/1312-100 Audio Sweep Signal Generator

### Features

- Super over-current and short-circuit protections
- Output power: TH1312-20      20W  
   TH1312-60      60W  
   TH1312-100    100W
- Signal frequency range: 20Hz—20kHz
- Large LCD display with backlight
- 3 3/4-digit voltage and frequency displayed synchronously
- Logarithm sweep and manual frequency modulation modes
- Start, end sweep frequencies and sweep time setup
- Special and reliable design of audio power amplifier
- Attenuated output (load resistance of 600Ω)
- Easy operation and maintenance



TH1312-20/TH1312-60/TH1312-100

### Brief Introduction

■ TH1312 series is a 3 3/4 digit Audio Sweep Signal Generator with sine wave output, low distortion and high stability over the whole audio frequency range. The start and end sweep frequencies and sweep time can be set as you need and signal frequency will be outputted by automatic log sweep mode or manual adjustment mode. TH1312 has multi protective functions such as power on/off delay protection, over current protection and DC amplitude limit protection. Long time short circuit is permitted and this character makes the instrument more reliable and convenient. Three different kinds of power outputs can be selected. TH1312, with its good load regulation and smooth amplitude frequency characteristics, can be widely used as a signal generator in acoustical, oscillatory and telegraphic areas. The production is especially suitable for purity inspection of loudhailer unit and system (sound box).

### Specifications

Measurement function	
Sweep mode	logarithm
Sweep ratio	1 : 1000
Sweep time	0.2 seconds—20 seconds, continuously adjustable
Frequency adjustment	List sweep start, end, frequency point separately continuous adjustment
Signal scope	Continuous adjustment of signal output scope
Attenuated output terminal	sine wave (600Ω load)
Signal distortion	≤ 0.8%
Flatness of amplitude-frequency	≤ 3% (50Hz – 20kHz)
Load adjustment ratio	≤ 3% (20Hz – 20kHz)
Warm-up time	15 minutes
Display	Large-character LCD display with backlight Voltage: 3 3/4 digits Frequency: 3 3/4 digits
Output signal	
Frequency response range	20 Hz – 20 kHz
Frequency accuracy	1% of reading±1 digit
Output voltage range (8Ω load)	TH1312-20      0 - 12.8Vrms
	TH1312-60      0 - 22Vrms
	TH1312-100    0 - 28Vrms
Voltage accuracy	3‰ of full scale+1% of reading
Maximum output power	TH1312-20      20W
	TH1312-60      60W
	TH1312-100    100W

### General Specifications

Operating temperature & humidity	0°C – 40°C, ≤90%RH	
Power supply	Voltage	198V – 242V
	Frequency	47.5Hz – 63Hz
Power consumption	TH1312-20	≤ 50VA
	TH1312-60	≤ 120VA
	TH1312-100	≤ 200VA
Dimensions (W×H×D)	350mm×110mm×340mm	
Weight	TH1312-20	Approx. 4.2kg
	TH1312-60	Approx. 6.5kg
	TH1312-100	Approx. 7.5kg

### Ordering Information

TH1312-20 Audio Sweep Signal Generator  
 TH1312-60 Audio Sweep Signal Generator  
 TH1312-100 Audio Sweep Signal Generator

### Instrument Accessories

TH26004C      2-terminal test cable

**Changzhou Tonghui Electronics Co., Ltd.**