

The "Function Generator Trainer" is a versatile training kit for Electrical and Electronics Laboratories. It is designed to explain the fundamentals of Signal Generation. A Function Generator is a product that can produce various patterns of Voltage at a variety of Frequencies and Amplitudes. This Function Generator Trainer allows students to produce the different waveforms and to understand the concept of their generation.

Features :

- A low cost trainer demonstrating all basic concepts of Function Generator
- Exclusive presentation and easy illustration of each block
- Designed considering all safety standards
- Low sine wave distortion
- Low variation with temperature
- Fault creation and troubleshooting
- Onboard Frequency range display
- Provided with elaborated operating manual



Technical Specifications :

- Frequency Ranges** : Selectable
- (a) 1 Hz to 10 Hz
 - (b) 10 Hz to 100 Hz
 - (c) 100 Hz to 1 KHz
 - (d) 1 KHz to 10 KHz
 - (e) 10 KHz to 100 KHz

Amplitude Control Output

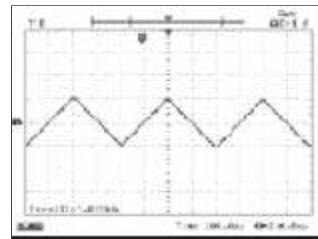
- Sine Wave : 6V VPP
- Square Wave : 6V VPP
- Triangular Wave : 6V VPP
- TTL Output : 5V

Sine Wave Generation : By Wave Shaping Circuit

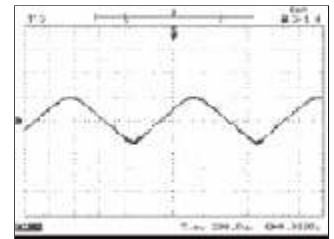
Switched Faults : 4 Nos.

Fuse : 500 mA, slow blow

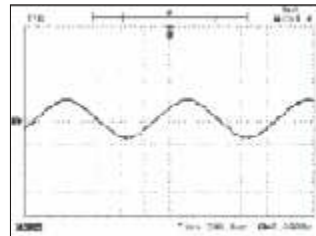
Power Supply : 220V AC, 50 Hz ±10%



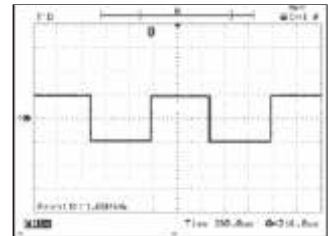
Triangular Waveform



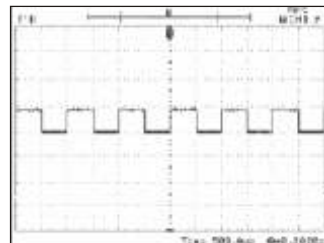
Signal under the Wave shaping process



Finally Shaped Sine Waveform



Square Waveform



TTL Signal

List of Experiments :

- Study of Electrical Waveforms generated by Function Generator.
- Study of Triangular Waveform Generation.
- Study of Sinusoidal Waveform Generation.
- Study of Square Waveform Generation.
- Study of Duty Cycle of Square Waveform.
- Study of TTL Waveform Generation.
- To create and identify different faults in the circuit and study their troubleshooting methods.

Note: Specifications are subject to change.

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