



FEATURES

- LCD Display 16 character by 1 line shows frequency and output waveform.
- Sine, Square, Triangular and Pulse Wave forms.
- Direct Digital Synthesizer IC based design with crystal oscillator gives exceptional frequency accuracy.
- Wide Frequency range: 1 Hz to 1 MHz, 2 Hz to 2 MHz, 3 Hz to 3 MHz in three separate models
- Variable DC offset facility with ON/OFF control.
- Standard 50 ohms output impedance.
- Compact size enables space saving.
- Low distortion sine wave output

TEKLAB INDIA SOLUTIONS Function Generator Model TL-9000 Series is a low-cost unit built using state of the art techniques. The LCD display directly displays the output frequency with good calibration accuracy as also output waveform type. Sine, Square, Triangular and Pulse wave forms are available. The digital architecture of DDS eliminates frequency drift due to component ageing and temperature variation.

TEKLAB INDIA SOLUTIONS Function Generator Model TL-9000 Series are the best to simulate signals, validate circuit responses, and ensure the reliability of electronic designs, making them indispensable in both research and development and manufacturing environments.

The impressive performance and low cost make it ideally suited for service, educational, industrial and biomedical applications. The front panel controls are all pushbuttons and knobs and ergonomically arranged for ease of operation. The output signal can be conveniently limited to -20 dB, -40 dB or -60 dB by fixed attenuator. The instrument is compact, rugged and lightweight.

TECHNICAL SPECIFICATIONS

		MODEL		
		TL-9001	TL-9002	TL-9003
WAVE FORMS	Sine	1 Hz to 1 MHz	2 Hz to 2 MHz	3 Hz to 3 MHz
	Square	1 Hz to 1 MHz	2 Hz to 2 MHz	3 Hz to 3 MHz
	Triangle	1 Hz to 0.5 MHz	2 Hz to 0.5 MHz	3 Hz to 0.5 MHz
	Pulse	1 Hz to 1 MHz	2 Hz to 2 MHz	3 Hz to 3 MHz
	Selection	Push button switch		
FREQUENCY	Readout	3½ digits LCD display with direct display in Hz, KHz, MHz		
	Accuracy	9% < 2 Hz		
		4% - 2 Hz - 5 Hz	4% - 2 Hz - 5 Hz	4% - 3 Hz - 5 Hz
		2% - 5 Hz - 10 Hz	2% - 5 Hz - 10 Hz	2% - 5 Hz - 10 Hz
		0.8%-10Hz-100Hz	0.8% -10Hz-100Hz	0.8%-10 Hz-100 Hz
		0.1% > 100 Hz	0.1% > 100 Hz	0.1% > 100 Hz
Selection	2 nos. Push button switches with separate fine control			
OUTPUT	Socket	BNC		
	Amplitude	20 volts pk-pk		
	Impedance	50 ohms		
	Offset with enable	± 5V continuously adjustable, attenuated by step attenuator		
	Level flatness	± 2% from 1 Hz to 100 KHz	± 2% from 2 Hz to 200 KHz	± 2% from 3 Hz to 300 KHz
ATTENUATOR	Attenuation	0 dB, 20 dB, 40 dB, 60 dB		
	Selection	Two stations push button switch		
SINE OUTPUT	Distortion	0.6% max @ 20V pk-pk, 0.3% max @ 2V pk-pk (Fo = 10 KHz)		
SQUARE OUTPUT	Rise & Fall time	< 100n sec	< 70n sec	< 60n sec
TRIANGLE OUTPUT	Linearity error	0.2% (Fo = 10 KHz, 5% to 95%)		
PULSE OUTPUT	Rise & Fall time	< 100n sec	< 70n sec	< 60n sec
	Duty cycle variation	15% to 85%		
GENERAL	Operating Temp.	0 to 50°C (Accuracy specified at 25°C)		
	Power	230 V AC ±10%, 50 Hz, 5 VA		
	Dimensions	215 mm (W) x 85 mm (H) x 205 mm (D)		
	Weight	1.8 Kg approx.		

*All specifications and appearances are subject to change without prior approval.

