

# Aplab

## 1MHz FUNCTION GENERATOR FG1MD



Aplab's 1MHz Function Generator Model FG1MD is the answer to most engineer's test requirements. Low cost and numerous advantages make model FG1MD the best in the market today. The FG1MD can be used as a signal source to check amplifiers, filters, attenuators and also to generate in circuit based signals.

### Description

The FG1MD is designed to provide the user with all the specifications of a good quality Function Generator while maintaining easy operability. The Frequency range is 0.01Hz to 1MHz. Frequency setting through coarse and fine controls makes quick adjustment possible.

### Features

- Wide Frequency Range
- Sine, Triangle, Square, Ramp, Pulse, TTL (Sync) & DC Outputs
- Low Distortion
- High Resolution on Low Frequency
- Output Attenuation upto 80dB
- Variable DC Offset Control
- Four Digit Display with Frequency Indication in Hz, KHz, MHz / Amplitude display

## Technical Specifications

### FUNCTION GENERATOR

<b>Frequency Range</b>	: 0.01Hz to 1MHz in 8 decade ranges.
<b>Frequency Indication Accuracy</b>	: $\pm 1\%$ $\pm 1$ digit.
<b>Output Waveforms</b>	: Sinusoidal, Triangle, Square, Ramp, Pulse, TTL (Sync) & DC Outputs.
<b>Sine Distortion</b>	: $< 1\%$ (typically).
<b>Square Wave Rise/Fall Time</b>	: $\leq 75$ nsec.
<b>Time Symmetry</b>	: 10% to 90% variable.
<b>Maximum Output Voltage :</b>	
a) Into 50 ohms	: 10V p-p output.
b) Open Circuit	: 20V p-p output.
<b>Amplitude Indication</b>	: 3 digit seven segment display (Vp-p) $\pm 5\%$ .
<b>Amplitude Flatness</b>	: $\pm 0.5$ dB upto 100KHz range. $\pm 1.0$ dB for 1MHz range.

<b>Attenuator</b>	: Two step attenuators of 20dB & 40dB. Fine attenuation of 20dB through vernier control.
<b>Attenuator Accuracy</b>	: $\pm 0.5$ dB per 20dB at 1KHz.
<b>DC Offset</b>	: $\pm 10$ V $\pm 5\%$ (DC + AC peak) in open circuit. $\pm 5$ V $\pm 5\%$ (DC + AC peak) in 50 ohms.

### POWER REQUIREMENT

<b>Power</b>	: 230V AC $\pm 10\%$ , 50Hz.
<b>Consumption</b>	: 15VA.

### GENERAL

<b>Dimensions (mm)</b>	: 270 (W) x 88 (H) x 310 (D).
<b>Weight</b>	: 3 Kg. (Approx.).
<b>Standard Accessories</b>	
Instruction Manual	- 1 No.
BNC(M) to Alligator Clip	- 1 No.
Mains Cord	- 1 No.

WE PURSUE A POLICY OF CONTINUOUS DEVELOPMENT AND PRODUCT IMPROVEMENT. THUS THE SPECIFICATIONS IN THIS DOCUMENT AND THE LOCATION OF CONTROLS ON THE FRONT PANEL MAY BE CHANGED WITHOUT NOTICE.

**Aplab** Test & Measurement Instruments

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