

# Aplab

## 2MHz AM/FM FUNCTION GENERATOR FGM2M



### Features

- 0.2 Hz to 2 MHz Frequency Output in 8 Ranges
- Versatile Waveforms: Sine, Square, Triangle, Ramp, Pulse and DC Outputs
- Standard AM, Balance AM and FM Modulation Outputs
- Internal / External Sweep Control
- Low Distortion for Sine Waveform less than 1% Typically
- Variable Symmetry for Generating Sawtooth and Pulse Waveforms
- 4 Digits Digital LED Display
- Variable DC Offset Control
- Output Level Control with 20dB and 40dB Attenuator
- 20 Vp-p Output Level in Open Circuit
- Dedicated Auxillary Function Generator upto 20KHz

## Technical Specifications

### Output Characteristics

Output Waveform	: Sine, Triangle, Square, Ramp, Pulse, AM Balance, AM Standard, FM, Sweep and DC.
Output Level	: 20Vp-p in Open Circuit, 10Vp-p in 50Ω Load.
Output Attenuator	: 20, 40dB ± 1dB and 20dB continuously variable.
Output Impedance	: 50Ω ±5%.
DC Offset	: ±10V. (DC ± AC peak) into Open Circuit. ±5V. (DC ± AC peak) into 50Ω Load.

### Frequency Characteristics

Range	: 0.2 Hz to 2 MHz in 8 Ranges.
Indication Accuracy	: ±0.1%, ±1 Digits.

### Waveform Characteristics

Square Rise & Fall Time	: < 100ns.
Symmetry / Duty Cycle	: 15% to 85% variable . (F/2 for symmetry ON).
Triangle Linearity	: 98% upto 100KHz, 95% above 100KHz.
Sinewave Distortion	: <1% (Typically).
Amplitude Flatness	: +2%.

### Sweep Characteristics

Sweep Type	: Linear.
Sweep Range	: 25 : 1.
Sweep Rate	: 20msec to 4sec variable.

### Modulation Characteristics

#### Auxiliary Function Generator for Int. Modulation

Waveforms	: Sine, Square, Triangle.
Frequency Range	: 2Hz to 20KHz.
Output Level	: 10Vp-p.

#### Amplitude Modulation

Mode	: Standard / Balance.
Carrier Freq.	: Upto 1MHz.
Int. Mod. Freq.	: 2 to 20KHz..
Int. Mod. Index	: 0% to 100%.
Ext Modulation	: 100% for 2Vp-p.
Ext. Mod. Freq.	: DC to 20KHz.

#### Frequency Modulation

Deviation	: 0 to 10%.
Ext Modulation	: 10% for 2Vp-p.
Ext. Mod. Freq.	: DC to 20KHz.

#### Frequency Counter

Mode	: Internal / Aux.
Display	: 4 Digits Red LED Display.
Display Accuracy	: ±0.1%, ±1 Digits.

#### General

Power Requirement	: 230V ±10V, 50Hz AC Supply.
Dimension	: 245 (W) x 143 (H) x 338 (D) mm approx.
Weight	: 4 Kg. approx.

#### Standard Accessories

1. Instruction Manual - 1 No.
2. BNC (M) to Alligator Clips - 1 No.
3. 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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