



- 6 waveform outputs are selectable — sine, triangle, square (50:50), square (variable), DC, and AM
- Frequency range is continuously variable between 0.1 Hz and 10 MHz
- VCF (Voltage Controlled Frequency) and VCA (Voltage Controlled Amplitude) are provided
- Variable duty ratio up to 85:15 permits use as a pulse generator
- Simplified panel design

## 0.1 Hz to 10 MHz

The FG-350 Frequency Generator provides a wide bandwidth (0.1 Hz – 10 MHz), 6 types of waveforms, VCF/VCA facilities and high output (10 Vp-p).

### Specifications

<b>Frequency range</b>	: 0.1 Hz to 10 MHz in 7 ranges and continuously variable between ranges	<b>Sweep mode</b>	
Dial	: 0.1 – 10 continuously variable	CONT SWEEP	: Continuous sweep
Accuracy	: 5% of full scale (at x1 – x100 k range) 10% of full scale (at x1 M range)	TRIG SWEEP	: Single sweep
<b>Signal output</b>		Sweep width	: Max. 100: 1 (in 1 range)
Waveforms	: Sine, triangle, square (50:50), square (variable), DC, AM	Sweep Time	: 1 ms – 10s in 4 ranges and continuously variable with FINE tuning
Variable duty ratio	: 50:50 to 85:15 continuously variable	Sweep out	
Output R	: 50 Ω ±5%	Sawtooth out	: 0 – 10 V peak (output terminal open) 0 – 5 V peak (50 Ω load)
Amplitude	: 10 Vp-p (50 Ω load), 20 Vp-p (output terminal open)	Square out	: More than +2 V (output terminal open) More than +1 V (50 Ω load)
Attenuator	: Three pushbutton selection 0 dB, 20 dB, 40 dB and continuously variable between ranges	<b>VCF (Voltage controlled frequency)</b>	
DC offset	: More than ±10 V (output terminal open) More than ±5 V (50 Ω load)	Input R	: Approx. 100 kΩ
Sine-wave distortion	: Less than 0.5% (at 10 Hz – 1 kHz)	Controllable frequency	
Triangle wave non-linearity	: Less than 1% (at 10 Hz – 1 kHz)	Range	: All ranges possible
<b>Square wave</b>		Max. input voltage	: +10 V
Rise and Fall time	: Less than 20 ns	Input voltage	: 10 V. [Dial Scale + Input Voltage (V)] 0.01 V (at Dial "ON") OSC frequency is controlled by VCF input voltage (at Dial "OFF"). Frequency Variable: up to 1,000 : 1
<b>Sync. output</b>		<b>VCA (Voltage controlled amplitude)</b>	
Waveform	: Square wave	Input R	: Approx. 10 kΩ
Output voltage	: More than +2 V (open circuit) More than +1 V (50 Ω load)	Controllable frequency	
<b>Ext. gate trigger</b>		Range	: All ranges possible
Input R	: Approx. 10 kΩ	Output voltage	: Max. 20 Vp-p (open circuit) (at ±5 V input)
Input sensitivity	: Min. 2 Vp-p (Sine) Min. +1 V (Pulse) Pulse Width: More than 50 ns	Input frequency	: DC – 1 MHz, –3 dB
Input frequency	: DC – 5 MHz	<b>Power supply</b>	: AC 100/117/200/217/234 V ±10%, 50 – 400 Hz, less than 50 Watts
<b>OSC mode</b>		<b>Dimensions and weight</b>	: Approx. 210(W) x 100(H) x 410(L) mm
CONT	: Continuous oscillating	<b>Accessories</b>	: Fuse . . . . . 2 Accessory bag . . 1 Instruction manual . 1
GATE	: Signal appears continuously while a signal is applied to GATE/TRIG IN.		
TRIG	: Single oscillating		
MAN	: Manual operation of GATE, TRIG and TRIG SWEEP		