

Data Sheet

FG2C

Function Generator



Function Generator to 3 MHz

- Square, Triangle, Sine waves, TTL and CMOS pulse outputs
- 0.3 Hz to 3 MHz range
- Variable controlled frequency (VCF) input
- Duty-cycle control
- Variable output
- 2 switchable 20 dB attenuators
- Variable DC offset control
- Includes line cords and fuses for either 117 V or 220 V operation

This function generator provides a substantial array of output capabilities. It's extremely reliable for heavy day-to-day

usage in electronic troubleshooting, production manufacturing test or as a breadboarding signal source.

The FG2C function generator supplies all the basic test waveforms for fast, easy push-button selection of square, triangle and sine waves plus TTL or CMOS pulse output with low impedance, low distortion output. Smooth, analog knob dials frequency between 0.3 Hz and 3 MHz. Vary the output from less than 20mVp-p to 20Vp-p open circuit (10Vp-p max 50W load). Duty cycle control allows for setting pulses positive or negative. The VCF input allows external control for generating sweep signals.

Specifications (at 23 °C; $\leq 70\%$ R.H.)

Function	Range	Accuracy
Main		
Frequency	0.3 Hz to 3 MHz (7 ranges)	$\pm 5\%$, + 1 Hz (@ 3.0 position)
Amplitude	> 10 Vpp (into 50 Ω load)	
Impedance	50 $\Omega \pm 10\%$	
Attenuator (knob)	-20 dB	± 1 dB
Attenuator (button)	-20 dB	± 1 dB
DC offset	< -5 V to > +5 V (into 50 Ω load)	
Duty-cycle control	80 %:20 %:80 % to 1 MHz; continuously variable	
Sine Wave		
Distortion	1 %, 0.3 Hz to 200 kHz THD < 35 dB below fundamental in all ranges (Specification applied from MAX. to 1/10 level)	
Flatness	< 0.3 dB, 0.3 Hz to 300 kHz; < 0.5 dB, 300 kHz to 3 MHz	
Triangle Wave		
Linear	$\geq 98\%$, 0.3 Hz to 100 kHz; $\geq 95\%$, 100 kHz to 3 MHz	
Square Wave		
Symmetry	$\pm 2\%$, 0.3 Hz to 100 kHz	
Rise or fall time	≤ 100 ns at maximum output (into 50 Ω load)	
CMOS Output		
Level	4 Vpp, ± 1 Vpp to 14.5 Vpp ± 0.5 Vpp adjustable	
Rise or fall time	≤ 120 ns	
TTL Output		
Level	≥ 3 Vpp	
Fan out	20 TTL load	
Rise or fall time	≤ 25 ns	
VCF		
Input Voltage	-10 to +10, ± 1 V (100:1)	
Input Impedance	10 k Ω , $\pm 10\%$	



General Specifications

Power source	115 V ac or 230 V ac, $\pm 15\%$; 50/60 Hz
Operating environment	For indoor use, altitude up to 2000 M, 0 °C to 40 °C, 80 %RH
Storage environment	-10 °C to 70 °C @70 %R.H.
Dimensions (W x H x D)	243 mm x 93 mm x 292 mm (9.57 in x 3.66 in x 11.5 in)
Weight	2.0 kgs (4.4 lbs)
Safety approvals	EN61010-1, Cat. II, Pollution degree 2
Warranty	One-year

Included Accessories

Test cables, spare fuses, 117 V line cord, 220 V line cord and users manual.

No waiting.

No shipping charges.

No hassle warranty

Our commitment to high-quality products and customer service is demonstrated by our industry exclusive "No Hassle" warranty. In the unlikely event that a Meterman test tool requires warranty service, any of our local dealers are authorized to replace it, on the spot.



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