

Wavetek Meterman Function Generator and Sweep Function Generator (FG2C, FG3C)

Part Nos. 01FG2C-U and 01FG3C-U

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FG2C

Specifications		
Main	Frequency Range	0.3 Hz to 3 MHz (7 ranges)
	Amplitude	> 10 Vpp (into 50 Ω load)
	Impedance	50 Ω ± 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
	Range Accuracy	± 5 %, + 1 Hz (@ 3.0 position)
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	≥ 98 %, 0.3 Hz to 100 kHz; ≥ 95 %, 100 kHz to 3 MHz
Square Wave	Symmetry	± 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 kΩ, ± 10 %
General Specifications		
Power Source	115 VAC or 230 VAC, ± 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" x 3.66" x 11.5")	
Weight	2.0 kgs (4.4 lbs)	
Safety Approvals	EN61010-1, Cat. II, Pollution degree 2	
Warranty	One-year	

FG3C

Specifications		
Main	Frequency Range	0.3 Hz to 3 MHz (7 ranges)
	Amplitude	> 10 Vpp (into 50 Ω load)
	Impedance	50 Ω ± 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	≥ 98 %, 0.3 Hz to 100 kHz; ≥ 95 %, 100 kHz to 3 MHz
Square Wave	Symmetry	± 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 V to + 10 V, ± 1 V (100:1)
	Input Impedance	10 kΩ ± 10 %
GCV	Output Voltage	0 to 2 V DC, relative to frequency setting of range
	Sweep Operation	
	Sweep/Manual Switch selector	
	Sweep/Rate	100:1 ratio maximum, adjustable
	Sweep/Time	0.5 sec. to 30 sec. adjustable
	Sweep/Mode Lin./Log. switch selector	
Amplitude Modulation	Depth	0 to 100 %
	Modulation Frequency	400 Hz (INT), DC to 1 MHz (EXT)
	Carrier BW	100 Hz to 3 MHz (-3 dB)
	EXT Sensitivity	≤ 10 Vpp for 100 % modulation
Frequency Modulation	Deviation	0 to ± 5 %
	Modulation Frequency	400 Hz (INT), DC to 20 kHz (EXT)
	EXT Sensitivity	≤ 10 Vpp for 10 % modulation
Frequency Counter	Internal/External Switch Selector	
	Range	0.3 Hz to 3 Mz Internal; 5 Hz to 150 MHz External
	Accuracy	Time base accuracy ±1 count
	Time Base	±20 ppm (23°C, ± 3 °C), after 30 min. warm-up)
	Resolution	10 nHz (1 Hz range); 1 kHz (100 MHz range)
	Sensitivity	1 MΩ /150 pF ≤ 35 mVrms (5 Hz to 100 MHz) ≤ 45 mVrms (100 MHz to 150 MHz)
General Specifications		
Display	6 digit; green LED, 7.6 mm (0.3") high	
Power Source	115 VAC or 230 VAC, ± 15 %; 50/60 Hz	
Operating Environment	For indoor use, altitude up to 2000 M., 0 °C to 40 °C, 80 %R.H.	
Storage Environment	-10 °C to 70 °C @ 70 % R.H	
Dimensions (W x H x D)	243 mm x 93 mm x 292 mm	
Weight	2.2 kgs (4.8 lbs)	
Safety Approvals	EN61010-1, Cat. II, Pollution degree 2	
Warranty	One-year	