

SPECIFICATIONS			
		CH1	CH2
WAVEFORMS		Sine, Square, Ramp, Pulse, Noise, ARB	
ARBITRARY FUNCTION	Sample Rate Repetition Rate Waveform Length Amplitude Resolution Non-Volatile Memory	120MSa/s 60MHz 4k point 10 bit 4k points	
FREQUENCY CHARACTERISTICS	Range Resolution Accuracy Stability Aging Tolerance	1μHz ~ 25MHz 1MHz 1μHz ±20ppm ±1ppm, per 1 year ±1mHz	
OUTPUT CHARACTERISTICS	Amplitude Accuracy Resolution Flatness Offset Waveform Output	1mVpp~10Vpp(into 50Ω), 2mVpp~20Vpp(open-circuit) 1mVpp~5Vpp(into 50Ω) for 20MHz~25MHz; 2mVpp~10pp(open-circuit) for 20MHz~25MHz ±2% of setting ±1mVpp(at 1kHz) 1mV or 3digits ±1% (0.1dB) ≤100kHz, ±3% (0.3 dB) ≤5MHz, ±5% (0.4 dB) ≤12MHz, ±10% (0.9dB) ≤25MHz (Sine wave relative to 1kHz) Vpp, Vrms, dBm ±5Vpk ac+dc(into 50Ω); ±10Vpk ac+dc(open circuit); ±2.5Vpk ac+dc(into 50Ω) for 20MHz~25MHz ±5Vpk ac+dc(open circuit) for 20MHz~25MHz 2% of setting + 5mV+ 0.5% of amplitude 50Ω typical (fixed); >10MΩ (output disabled) Short-circuit protected; Overload relay automatically disables main output	
SINE WAVE CHARACTERISTICS	Harmonic Distortion	≤55 dBc, DC ~ 200kHz, Ampl > 0.1Vpp; ≤50 dBc, 200kHz ~ 1MHz, Ampl > 0.1Vpp ≤35 dBc, 1MHz ~ 5MHz, Ampl > 0.1Vpp; ≤30 dBc, 5MHz ~ 25MHz, Ampl > 0.1Vpp	
SQUARE WAVE CHARACTERISTICS	Rise/Fall Time Overshoot Asymmetry Variable Duty Cycle	≤ 25ns at maximum output (into 50Ω load) 5% 1% of period + 5 ns 1.0%~99% ≤ 100kHz; 10.0%~90.0% ≤ 1MHz; 50.0% ≤ 25MHz	
RAMP CHARACTERISTICS	Linearity Variable Symmetry	< 0.1% of peak output 0%~100% (0.1% Resolution)	
PULSE CHARACTERISTICS	Period Pulse Width Overshoot Jitter	40ns ~ 2000s 20ns ~ 1999.9s <5% 20ppm + 5ns	
AM MODULATION	Carrier Waveforms Modulating Waveforms Modulating Frequency Depth Source	Sine, Square, Ramp, Pulse, Arb Sine, Square, Triangle, Up ramp, Dn ramp 2mHz ~ 20kHz (INT); DC ~ 20kHz (EXT) 0% ~ 120.0% Internal / External	Sine, Square, Ramp, Pulse, Arb Sine, Square, Triangle, Up ramp, Dn ramp 2mHz ~ 20kHz (INT); DC ~ 20kHz (EXT) 0% ~ 120.0% Internal / External
FM MODULATION	Carrier Waveforms Modulating Waveforms Modulating Frequency Peak Deviation Source	Sine, Square, Ramp Sine, Square, Triangle, Up ramp, Dn ramp 2mHz ~ 20kHz (INT); DC ~ 20kHz (EXT) DC ~ Max Frequency Internal / External	Sine, Square, Ramp Sine, Square, Triangle, Up ramp, Dn ramp 2mHz ~ 20kHz (INT); DC ~ 20kHz (EXT) DC ~ Max Frequency Internal / External
PM	Carrier Waveforms Modulating Waveforms Modulating Frequency Phase Deviation Source	Sine, Square, Ramp Sine, Square, Triangle, Up ramp, Dn ramp 2mHz ~ 20kHz (INT); DC ~ 20kHz (EXT) 0° ~ 360° Internal / External	Sine, Square, Ramp Sine, Square, Triangle, Up ramp, Dn ramp 2mHz ~ 20kHz (INT); DC ~ 20kHz (EXT) 0° ~ 360° Internal / External
FSK	Carrier Waveforms Modulating Waveforms Modulating Frequency Phase Deviation Source	Sine, Square, Ramp, Pulse 50% duty cycle square 2mHz ~ 100 kHz (INT); DC ~ 100 kHz (EXT) 1μHz ~ Max Frequency Internal / External	Sine, Square, Ramp, Pulse 50% duty cycle square 2mHz ~ 100 kHz (INT); DC ~ 100 kHz (EXT) 1μHz ~ Max Frequency Internal / External
SUM	Carrier Waveforms Modulating Waveforms Modulating Frequency Phase Deviation Source	Sine, Square, Ramp, Pulse, Noise Sine, Square, Triangle, Up ramp, Dn ramp 2mHz ~ 20kHz (INT); DC ~ 20kHz (EXT) 0% ~ 100.0% Internal / External	Sine, Square, Ramp, Pulse, Noise Sine, Square, Triangle, Up ramp, Dn ramp 2mHz ~ 20kHz (INT); DC ~ 20kHz (EXT) 0% ~ 100.0% Internal / External
SWEEP	Waveforms Type Start/Stop Freq Sweep Time Source	Sine, Square, Ramp Linear or Logarithmic 1μHz to Max Frequency 1ms ~ 500s Internal / External/Manual	Sine, Square, Ramp Linear or Logarithmic 1μHz to Max Frequency 1ms ~ 500s Internal / External/Manual
BURST	Waveforms Frequency Burst Count Start/Stop Phase Internal Period Gate Source Trigger Source N-Cycle, Infinite	Sine, Square, Ramp 1μHz ~ 25MHz 1 ~ 65535 cycles or Infinite -360 ~ +360 1ms ~ 500s External Trigger Single, External or Internal Rate 0s ~ 655350ns	Sine, Square, Ramp 1μHz ~ 25MHz 1 ~ 65535 cycles or Infinite -360 ~ +360 1ms ~ 500s External Trigger Single, External or Internal Rate 0s ~ 655350ns
FREQUENCY COUNTER	Range Accuracy Time Base Resolution Input Impedance Sensitivity	5Hz ~ 150MHz Time Base accuracy: 1count ±20ppm (23°C ± 5°C) after 30 minutes warm up The maximum resolution is: 100nHz for 1Hz, 0.1Hz for 100MHz 1kΩ/1pF 35mVrms ~ 30Vrms (5Hz ~ 150MHz)	
DUAL CHANNEL FUNCTION	Phase Tracking Coupling DSOLink	-180° ~ 180°, Synchronize phase CH2=CH1 Frequency (Ratio or Difference) Amplitude & DC Offset ✓	-180° ~ 180°, Synchronize phase CH1=CH2 Frequency (Ratio or Difference) Amplitude & DC Offset ✓
EXTERNAL TRIGGER INPUT	Type Input Level Slope Pulse Width Input Impedance	For FSK, Burst, Sweep TTL Compatibility Rising or Falling (Selectable) >100ns 10kΩ, DC coupled	
EXTERNAL MODULATION INPUT	Type Voltage Range Input Impedance Frequency	For AM, FM, PM, SUM ±5V full scale 10kΩ DC ~ 20kHz	
TRIGGER OUTPUT	Type Level Pulse Width Maximum Rate Fan-out Impedance	For Burst, Sweep, Arb TTL Compatible into 50Ω >450ns 1MHz ≥4 TTL Load 50Ω Typical	
Save/RECALL	10 Groups of Setting Memories		
INTERFACE	USB (Host & Device)		
DISPLAY	3.5" TFT LCD		
POWER SOURCE	AC100 ~ 240V, 50 ~ 60Hz		
POWER CONSUMPTION	25W (Max.)		
OPERATING ENVIRONMENT	Temperature to satisfy the specification: 18~28°C; Operating temperature: 0~40°C; Relative Humidity: ≤80%, 0~40°C; ≤70%, 35~40°C; Installation category: CAT II		
OPERATING ALTITUDE	2000 meters		
STORAGE TEMPERATURE	-10~70°C, Humidity: ≤70%		
DIMENSIONS & WEIGHT	266(W)×107(H)×293(D) mm; Approx. 2.5 kg		

* The specifications apply when the function generator is powered on for at least 30 minutes under +18°C~+28°C.

Specifications subject to change without notice.

FG-2225GD1DH

ORDERING INFORMATION	OPTIONAL ACCESSORIES
AFG-2225 25MHz True Dual Channel Arbitrary Function Generator	GTL-110 BNC(M)-BNC(M) RF Cable
ACCESSORIES	GTL-246 USB Cable, USB 2.0 Type A – Type B, 4P
User Manual CD x 1, Quick Start Manual x 1, GTL-101 Test Lead x 2, Power Cord x 1	FREE DOWNLOAD
	PC Software Arbitrary Waveform Editing Software

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