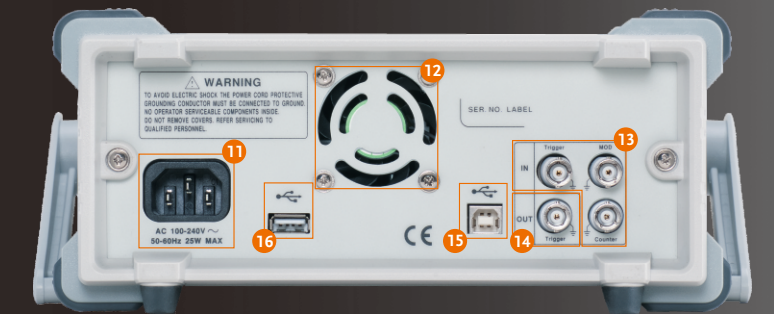


PANEL INTRODUCTION



1. LCD Display
2. Function Keys, Return Key
3. Scroll Wheel
4. Arrow Keys
5. Output Terminals
6. Channel Select Key
7. Power Switch
8. Output key
9. Operation Keys
10. Number Pad



11. Power Socket Input
12. Fan
13. Input Terminals
14. Trigger Output
15. USB Host Port
16. USB Device Port

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 Units Offset Waveform Output Impedance Protection	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 auto matically 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

SPECIFICATIONS

		CH1	CH2
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) 1uHz – Max Frequency Internal / External	Sine, Square, Ramp, Pulse 50% duty cycle square 2mHz – 100 kHz (INT); DC – 100 kHz(EXT) 1uHz – 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 2000 meters -10–70°C, Humidity: ≤70%		
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-2225GD1BH

ORDERING INFORMATION

AFG-2225 25MHz True Dual Channel Arbitrary Function Generator

ACCESSORIES

User Manual CD x 1, Quick Start Manual x 1, GTL-101 Test Lead x 2, Power Cord x 1

OPTIONAL ASSESSORIES

GTL-110 BNC(M)-BNC(M) RF Cable
GTL-246 USB Cable, USB 2.0 Type A – Type B, 4P

FREE DOWNLOAD

PC Software Arbitrary Waveform Editing Software

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