

**Aumictech**

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Data Sheet

August 13, 2026

INSTEK

Instek GFG-8219A Function Generator

Key Features - AM/FM and GCV only on GFG-8219A/8255A (not on 8215A/8217A) - LIN/LOG sweep 0.5 s to 30 s, up to 100:1 rate (8217A/8219A/8255A) - External VCF 0 to 10 V for 100:1 frequency control - 6-digit LED; INT/EXT counter - Duty 20 percent to 80 percent to 1 MHz with inversion - 251 × 91 × 291 mm, about 2.2 kg Technical Specifications Model: GFG-8219A Manufacturer: GW Instek Instrument Type: Analog sweep function generator Family: GFG-8200A Alias: Instek GFG-8219A; GFG8219A Frequency Range: 0.



MODEL

Instek GFG-8219A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

GFG-8219A

LISTING

<https://aumictechlabs.com/products/gfg-8219a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Instek GFG-8219A is a versatile analog function generator delivering precision waveforms across 0.3 Hz to 3 MHz for audio response testing, vibration analysis, servo evaluation, and ultrasonic applications. This instrument combines a main signal output exceeding 10 Vpp into 50 Ω with a built-in 6-digit frequency counter spanning 5 Hz to 150 MHz, offering engineers integrated signal generation and measurement in a single platform. Technical Specifications Frequency Range & Output 0.3 Hz to 3 MHz across 7 ranges Main output: >10 Vpp into 50 Ω $\pm$ 10% DC offset: -5 V to +5 V Output impedance: 50 Ω $\pm$ 10% Waveforms Sine, triangle, square, ramp, TTL, and CMOS Sine distortion: <1% (0.3 Hz to 200 kHz); <0.3 dB flatness (0.3 Hz to 300 kHz); 98% (0.3 Hz to 100 kHz); >95% (100 kHz to 3 MHz) Square symmetry: $\pm$ 2% (0.3 Hz to 100 kHz);

rise/fall time 3 Vpp, <25 ns rise/fall, 20 TTL loads fan-out CMOS: 4 Vpp $\pm$ 1 Vpp to 14.5 Vpp $\pm$ 0.5 Vpp (adjustable), <120 ns rise/fall Built-in Counter 6-digit display; 5 Hz to 150 MHz range High resolution measurement of internal or external signals External input: $\leq$ 30 V AC Key Features 6-digit LED display for frequency readout External signal measurement capability (counter input) Continuously adjustable duty cycle with polarity inversion Dual output capability for simultaneous testing Typical Applications Audio and vibration system characterization Servo loop testing and evaluation Ultrasonic device excitation Frequency response measurement Compatibility & Integration All connectors are BNC: main output, GCV, VCF input, external modulation, counter input, TTL, and CMOS outputs. Power requirement: 100–240 V AC.

Features & description

From manufacturer datasheet

Features

- AM/FM and GCV only on GFG-8219A/8255A (not on 8215A/8217A) • LIN/LOG sweep 0.5 s to 30 s, up to 100:1 rate (8217A/8219A/8255A) • External VCF 0 to 10 V for 100:1 frequency control • 6-digit LED; INT/EXT counter • Duty 20 percent to 80 percent to 1 MHz with inversion • 251 × 91 × 291 mm, about 2.2 kg

GFG8219A Characteristics / Specifications

PARAMETER	VALUE
Model	GFG-8219A
Manufacturer	GW Instek
Instrument Type	Analog sweep function generator
Family	GFG-8200A
Alias	Instek GFG-8219A; GFG8219A
Frequency Range	0.3 Hz to 3 MHz (7 ranges)
Waveforms	sine, triangle, square, ramp, TTL, and CMOS
Amplitude Into 50 Ohm	greater than 10 Vpp
Output Impedance	50 ohm plus/minus 10 percent
Attenuator	-20 dB plus/minus 1 dB times 2
DC Offset Into 50 Ohm	less than -5 V to greater than +5 V
Duty Control	20 percent to 80 percent, maximum 1 MHz, continuously adjustable
Display	6 digit LED
Sweep Rate	100:1 ratio maximum, adjustable
Sweep Time	0.5 s to 30 s, adjustable
Sweep Mode	linear or logarithmic, switch selected
AM Depth	0 to 100 percent
AM Mod Frequency Internal	400 Hz
AM Mod Frequency External	DC to 1 MHz
AM Carrier Bandwidth	100 Hz to 3 MHz (-3 dB)
AM External Sensitivity	10 Vpp or less for 100 percent modulation
FM Deviation	0 to plus/minus 5 percent
FM Mod Frequency Internal	400 Hz
FM Mod Frequency External	DC to 20 kHz
FM External Sensitivity	10 Vpp or less for 10 percent modulation

PARAMETER	VALUE
Counter INT Range	0.3 Hz to 3 MHz
Counter EXT Range	5 Hz to 150 MHz
Counter Accuracy	time base accuracy plus/minus 1 count
Time Base	plus/minus 20 ppm at 23 plus/minus 5 C after 30 minutes
Counter Resolution	100 nHz at 1 Hz; 1 Hz at 100 MHz
Counter Input Impedance	1 M ohm parallel 150 pF
Counter Sensitivity 5 Hz to 100 MHz	35 mVrms or less
Counter Sensitivity 100 to 150 MHz	45 mVrms or less
VCF Input Voltage	0 V to 10 V plus/minus 1 V (100:1)
VCF Input Impedance	10 k ohm plus/minus 10 percent
Mains	AC 115 V/230 V plus/minus 15 percent, 50/60 Hz
Dimensions	251 mmWx 91 mmHx 291 mmDWeight: approximately 2.2 kg
Related 5 MHz	GFG-8255A 0.5 Hz to 5 MHz
Bandwidth	100 Hz to 3 MHz (-3 dB)

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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PARAMETER	VALUE
Model	GFG-8219A
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Instrument Type	Analog sweep function generator
Family	GFG-8200A
Alias	Instek GFG-8219A; GFG8219A
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Waveforms	sine, triangle, square, ramp, TTL, and CMOS
Amplitude Into 50 Ohm	greater than 10 Vpp
Output Impedance	50 ohm plus/minus 10 percent
Attenuator	-20 dB plus/minus 1 dB times 2
DC Offset Into 50 Ohm	less than -5 V to greater than +5 V
Duty Control	20 percent to 80 percent, maximum 1 MHz, continuously adjustable
Display	6 digit LED
Sweep Rate	100:1 ratio maximum, adjustable
Sweep Time	0.5 s to 30 s, adjustable
Sweep Mode	linear or logarithmic, switch selected
AM Depth	0 to 100 percent
AM Mod Frequency Internal	400 Hz
AM Mod Frequency External	DC to 1 MHz
AM Carrier Bandwidth	100 Hz to 3 MHz (-3 dB)
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FM Deviation	0 to plus/minus 5 percent
FM Mod Frequency Internal	400 Hz
FM Mod Frequency External	DC to 20 kHz
FM External Sensitivity	10 Vpp or less for 10 percent modulation
Counter INT Range	0.3 Hz to 3 MHz

PARAMETER	VALUE
Counter EXT Range	5 Hz to 150 MHz
Counter Accuracy	time base accuracy plus/minus 1 count
Time Base	plus/minus 20 ppm at 23 plus/minus 5 C after 30 minutes
Counter Resolution	100 nHz at 1 Hz; 1 Hz at 100 MHz
Counter Input Impedance	1 M ohm parallel 150 pF
Counter Sensitivity 5 Hz to 100 MHz	35 mVrms or less
Counter Sensitivity 100 to 150 MHz	45 mVrms or less
VCF Input Voltage	0 V to 10 V plus/minus 1 V (100:1)
VCF Input Impedance	10 k ohm plus/minus 10 percent
Mains	AC 115 V/230 V plus/minus 15 percent, 50/60 Hz
Dimensions	251 mmWx 91 mmHx 291 mmDWeight: approximately 2.2 kg
Related 5 MHz	GFG-8255A 0.5 Hz to 5 MHz

Notes

Specs from the GW Instek GFG-8200A series specification sheet, GFG-8219A (0.3 Hz to 3 MHz) column. AM/FM and GCV apply to GFG-8219A/8255A. Confirm 8219A versus 8217A (sweep without AM/FM) on the faceplate.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.