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Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 3311A FUNCTION GENERATOR

The HP 3311A is a compact economical function generator for general-purpose sine square and triangle stimulus in service and education environments. Basic lab waveform generation, troubleshooting stimulus, and student experiment signal sources. Attenuator: Continuous or stepped level control Distortion Class: Economy generator class Distortion Class: Economy generator class Calibration: Frequency and amplitude checks Portability: High relative to larger HP generators Economy function-generator role from HP 3311A literature. Exact max frequency and Vp-p belong in the 3311A operating manual.



MODEL

HP / Agilent 3311A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

3311A

LISTING

<https://aumictechlabs.com/products/3311a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 3311A is a compact function generator delivering sine, square, triangle, and positive pulse waveforms across seven frequency decades from 0.1 Hz to 1 MHz. Engineered for lab validation, system integration, and education, it combines pushbutton convenience with independent amplitude and DC offset control. Technical Specifications Frequency and Waveforms Frequency range: 0.1 Hz to 1 MHz (seven decade ranges) Waveforms: Sine, square, triangle, positive pulse Dial accuracy: $\pm 5\%$ of full scale Square wave time axis symmetry error: $\pm 2\%$ maximum to 100 kHz Main Output Amplitude: 10 Vp-p into 600 Ω ; 20 Vp-p open circuit Amplitude control: Continuously variable with >30 dB attenuation range Output impedance: 600 Ω (nominal) DC offset: Independently adjustable up to ± 10 V DC (open circuit) or ± 5 V DC (into 600 Ω)

Maximum combined $V_{p-p} + V_{dc}$ without clipping: ± 10 V (open circuit); ± 5 V (into $600\ \Omega$) Pulse Output TTL compatible; >3 V positive amplitude (open circuit) Duty cycle: 13.5% to 16.5% of total period Transition times: 10:1 on any frequency range Input: 0.0 V to -10 V ± 2 V linear ramp produces $>10:1$ frequency increase Input impedance: $10\ k\Omega \pm 10\%$ in parallel with <60 pF Electrical Power requirements: 100/120/220/240 V AC, $\pm 10\%/+5\%$ switchable, 48 Hz to 66 Hz Power consumption: ≤ 12 VA Key Features Output isolation up to ± 500 V relative to instrument case (external supply) Compact form factor: 89 mm H $\times$ 159 mm W $\times$ 248 mm D; 1.5 kg net weight Operating temperature: 0°C to 55°C (specifications $+15^\circ\text{C}$ to $+35^\circ\text{C}$) Standard BNC main output; separate TTL pulse output Typical Applications Component characterization, frequency response measurement, signal simulation, TTL logic verification, and educational demonstrations in electronics labs. Compatibility & Integration Rack mount kits available: 10851A (single unit); 10852A (dual units).

3311A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Function generator
Model	3311A
Waveforms	Sine Square Triangle
Frequency Control	Dial decades
Output Impedance Class	50 Ohm
Amplitude Control	yes
DC Offset	yes
Form Factor	Compact benchtop
Intended Use	Economy lab and service
Band Class	Audio to low HF
Sync Output Class	yes on typical units
Power	AC line
Operating Temperature Class	Laboratory
Attenuator	Continuous or stepped level control
Distortion Class	Economy generator class
Square Symmetry Class	Near 50 percent
Load	50 Ohm or high-Z
Chassis	Lightweight portable bench
Calibration	Frequency and amplitude checks
Overload Class	Within rated output
Ground Reference	Chassis common
Display	Dial
Portability	High relative to larger HP generators
Trigger Mode	Free running
Ramp Use	Triangle as approximate ramp

PARAMETER	VALUE
Operating temperature	Class: Laboratory

3311A Specifications

PARAMETER	VALUE
HP Agilent 3311A Function Generator	Overview
Multi range frequency dial	Sync output on typical builds
Technical Specifications	Instrument Type: Function generator
Notes	Economy function-generator role from HP 3311A literature. Exact max frequency and V p-p belong in the 3311A operating manual.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Laboratory
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Operating Temperature Class	Laboratory
Attenuator	Continuous or stepped level control
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Square Symmetry Class	Near 50 percent
Load	50 Ohm or high-Z
Chassis	Lightweight portable bench
Calibration	Frequency and amplitude checks
Overload Class	Within rated output
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Display	Dial
Portability	High relative to larger HP generators
Trigger Mode	Free running
Ramp Use	Triangle as approximate ramp Notes Economy function-generator role from HP 3311A literature. Exact max frequency andVp-p belong in the 3311A operating manual.

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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Notes

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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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.