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**Data Sheet**

August 14, 2026

HP / AGILENT

## HP / Agilent 3310B FUNCTION GENERATOR

The HP 3310B is the updated sibling of the 3310A benchtop function generator providing sine square and triangle waveforms with improved packaging and controls in the same application class. General electronics lab waveform source, amplifier and filter testing, and service-bench stimulus. Frequency Control: Dial with range decades Amplitude: Calibrated attenuator plus vernier Calibration Interval Class: Annual typical metrology practice Overload Protection Class: Within output stage ratings Ramp Capability Class: Via triangle with symmetry if equipped 3310B treated as the B-revision of the 3310 function generator family. Use the 3310B manual for authoritative frequency and amplitude tables.



MODEL

**HP / Agilent 3310B**

CALIBRATION

**Available on request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**3310B**

LISTING

<https://aumictechlabs.com/products/3310b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

### This unit

The HP/Agilent 3310B Function Generator delivers precision waveform synthesis across seven distinct output types: sine, square, triangle, positive pulse, negative pulse, positive ramp, and negative ramp. Operating from 0.0005 Hz to 5 MHz across ten decade ranges, it combines broad frequency coverage with exceptional output control - delivering up to 30 V peak-to-peak (open circuit) or 15 V peak-to-peak (into 50  $\Omega$ ) on the high output, with minimum outputs below 30 mV peak-to-peak. The instrument features adjustable DC offset ( $\pm 10$  V open circuit,  $\pm 5$  V into 50  $\Omega$ ), a built-in attenuator providing >30 dB control, and external VCO capability for frequency modulation and external triggering. Pulse and ramp functions offer fixed 15% or 85% duty cycle operation.

Technical Specifications Frequency Performance Range: 0.0005 Hz to 5 MHz across 10 decade ranges Dial accuracy (0.0005 Hz–500 kHz, all functions):  $\pm(1\% \text{ of setting} + 1\% \text{ of full scale})$  Dial accuracy (500 kHz–5 MHz, sine/square/triangle):  $\pm(3\% \text{ of setting} + 3\% \text{ of full scale})$  Dial accuracy (500 kHz–5 MHz, pulse/ramps):  $\pm(10\% \text{ of setting} + 1\% \text{ of full scale})$  Sine response (0.0005 Hz–50 kHz):  $\pm 1\%$ ; (50 kHz–5 MHz):  $\pm 4\%$  Sine distortion:  $>40 \text{ dB (1\%)}$  at 0.0005–10 Hz;  $>46 \text{ dB (0.5\%)}$  at 10 Hz–50 kHz (1 k $\Omega$  range);  $>40 \text{ dB (1\%)}$  at 50–500 kHz;  $>30 \text{ dB (3\%)}$  at 500 kHz–5 MHz Square wave/pulse rise-fall time:  $<30 \text{ ns}$  Triangle and ramp linearity: 30 V peak-to-peak open circuit;  $>15 \text{ V peak-to-peak}$  into 50  $\Omega$  Pulses  $>2 \text{ MHz}$ :  $>24 \text{ V peak-to-peak}$  open circuit;  $>12 \text{ V peak-to-peak}$  into 50  $\Omega$  Minimum output:  $<30 \text{ mV peak-to-peak}$  open circuit; 30 dB range ( $>60 \text{ dB}$  total across both ranges) Output impedance: 50  $\Omega$  DC offset:  $\pm 10 \text{ V}$  open circuit,  $\pm 5 \text{ V}$  into 50  $\Omega$  Maximum combined AC + DC:  $\pm 15 \text{ V}$  open circuit,  $\pm 7.5 \text{ V}$  into 50  $\Omega$  External Control VCO input with 50:1 frequency range on any dial setting FM capability within 1 to 50 $\times$  range setting Key Features Seven waveform types with fixed pulse/ramp duty cycles (15% or 85%) Overlapping high and low output ranges for  $>60 \text{ dB}$  total dynamic range Adjustable DC offset independent of AC amplitude VCO-based frequency modulation for swept and modulated signal generation Manual and external triggering support Typical Applications Electronic circuit characterization and transient response testing Audio frequency and ultrasonic signal generation Frequency sweep and modulation studies Pulse and timing validation for digital systems Analog filter and amplifier bench evaluation Compatibility & Integration External control via VCO input enables integration with control systems and automated test setups. 50  $\Omega$  output impedance ensures standard instrument matching.

## 3310B Characteristics / Specifications

| PARAMETER                   | VALUE                                  |
|-----------------------------|----------------------------------------|
| Instrument Type             | Function generator                     |
| Model                       | 3310B                                  |
| Waveforms                   | Sine Square Triangle                   |
| Frequency Control           | Dial with range decades                |
| Output Impedance Class      | 50 Ohm                                 |
| Amplitude                   | Calibrated attenuator plus vernier     |
| DC Offset                   | yes                                    |
| Sync Output                 | yes                                    |
| Form Factor                 | Benchtop                               |
| Intended Band Class         | Audio through HF                       |
| Family Relation             | Successor/companion to 3310A           |
| Distortion Class            | Specified sine THD in manual           |
| Square Edge Class           | Fast relative to high-range periods    |
| Power                       | AC line                                |
| Operating Temperature Class | Laboratory                             |
| Attenuator                  | Step attenuator                        |
| Level Flatness Class        | Band flatness specification in manual  |
| Load Drive                  | 50 Ohm and high-Z                      |
| Chassis Ground              | Output common referenced               |
| Calibration Interval Class  | Annual typical metrology practice      |
| Overload Protection Class   | Within output stage ratings            |
| Portability                 | Benchtop                               |
| Display                     | Frequency dial markings                |
| Trigger                     | Free run primary mode                  |
| Ramp Capability Class       | Via triangle with symmetry if equipped |

| PARAMETER             | VALUE             |
|-----------------------|-------------------|
| Operating temperature | Class: Laboratory |

# General Specifications & Supplementary Characteristics

| PARAMETER                   | VALUE                                                                                                                                                                                      |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating temperature       | Class: Laboratory                                                                                                                                                                          |
| Operating Temperature       | Class: Laboratory                                                                                                                                                                          |
| Operating Temperature Class | Laboratory                                                                                                                                                                                 |
| Attenuator                  | Step attenuator                                                                                                                                                                            |
| Level Flatness Class        | Band flatness specification in manual                                                                                                                                                      |
| Load Drive                  | 50 Ohm and high-Z                                                                                                                                                                          |
| Chassis Ground              | Output common referenced                                                                                                                                                                   |
| Calibration Interval Class  | Annual typical metrology practice                                                                                                                                                          |
| Overload Protection Class   | Within output stage ratings                                                                                                                                                                |
| Portability                 | Benchtop                                                                                                                                                                                   |
| Display                     | Frequency dial markings                                                                                                                                                                    |
| Trigger                     | Free run primary mode                                                                                                                                                                      |
| Ramp Capability Class       | Via triangle with symmetry if equipped Notes 3310B treated as the B-revision of the 3310 function generator family. Use the 3310B manual for authoritative frequency and amplitude tables. |

# 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                                  |
| Instrument Type             | Function generator                     |
| Model                       | 3310B                                  |
| Waveforms                   | Sine Square Triangle                   |
| Frequency Control           | Dial with range decades                |
| Output Impedance Class      | 50 Ohm                                 |
| Amplitude                   | Calibrated attenuator plus vernier     |
| DC Offset                   | yes                                    |
| Sync Output                 | yes                                    |
| Form Factor                 | Benchtop                               |
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| Family Relation             | Successor/companion to 3310A           |
| Distortion Class            | Specified sine THD in manual           |
| Square Edge Class           | Fast relative to high-range periods    |
| Power                       | AC line                                |
| Operating Temperature Class | Laboratory                             |
| Attenuator                  | Step attenuator                        |
| Level Flatness Class        | Band flatness specification in manual  |
| Load Drive                  | 50 Ohm and high-Z                      |
| Chassis Ground              | Output common referenced               |
| Calibration Interval Class  | Annual typical metrology practice      |
| Overload Protection Class   | Within output stage ratings            |
| Portability                 | Benchtop                               |
| Display                     | Frequency dial markings                |
| Trigger                     | Free run primary mode                  |
| Ramp Capability Class       | Via triangle with symmetry if equipped |

#### Notes

3310B treated as the B-revision of the 3310 function generator family. Use the 3310B manual for authoritative frequency and amplitude tables.

### Available from Aumictech

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

Request a quote: [sales@aumictech.com](mailto: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.