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Data Sheet

August 8, 2026

HP / AGILENT

HP / Agilent 3586C Selective Level Meter

The HP 3586C is a general-purpose selective level meter for precise frequency-selective amplitude measurements from approximately 50 Hz / 200 Hz to 32.5 MHz. Unlike telephone-oriented 3586A/B variants, the C model is the general-coverage wave analyzer without SSB-channel impairment options. It offers 0.01 dB amplitude resolution, 0.1 Hz frequency resolution, selectable IF bandwidths (20 / 400 / 3100 Hz), and full HP-IB programmability with a built-in counter for harmonic and intermodulation work. Harmonic and IMD level measurements; LF/MF/HF amplifier and audio system characterization; spurious and selective-level RF measurements; tracking-generator network response with companion 3336C; automated production level test.



MODEL

HP / Agilent 3586C

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

3586C

LISTING

<https://aumictechlabs.com/products/3586c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 3586C Selective Level Meter is a precision instrument for measuring individual signal components within complex waveforms across telecommunications, audio, sonar, and HF radio applications. Operating from 200 Hz to 32.5 MHz on 50/75 Ω inputs, it delivers amplitude measurement capability from +20 dBm to -120 dBm with ± 0.2 dB accuracy in its primary operating band. The instrument combines three selectable bandwidths (20 Hz, 400 Hz, 3100 Hz) with 0.1 Hz frequency resolution and a built-in counter for harmonic and intermodulation analysis. A noise floor near -115 dBm and passband flatness of ± 0.3 dB enable detection of low-

level signals in dense RF environments.

Technical Specifications

Frequency Range: 200 Hz to 32.5 MHz (50/75 Ω unbalanced input); 50 Hz to 108 kHz (600 Ω balanced); 100 Hz to 100 kHz (600 Ω bridged)

Frequency Resolution: 0.1 Hz

Center Frequency Accuracy: $\pm 1 \times 10^{-5}$ /year ($\pm 2 \times 10^{-7}$ /year with Option 004)

Selectivity (3 dB Bandwidth): 20 Hz, 400 Hz, 3100 Hz

Passband Flatness: ± 0.3 dB

Amplitude Measurement Range: +20 dBm to -120 dBm; specified to -100 dBm

Amplitude Resolution: 0.01 dB

Level Accuracy: ± 0.2 dB (20 kHz–18 MHz); ± 0.25 dB (18–32.5 MHz); ± 0.4 dB (200 Hz–20 kHz)

Noise Floor: Approximately -115 dBm

Image Rejection: -80 dBc (100–132 MHz)

IF Rejection: -80 dBc at 15.625 kHz; -60 dBc at 50 MHz

Harmonic Distortion: -75 dBc (>4 kHz, low distortion mode)

Intermodulation Distortion: 2nd and 3rd order in-band at ≤ 78 dB below full scale (20 kHz–1 MHz separation)

Input Impedances: 50 Ω , 75 Ω , 600 Ω balanced, 600 Ω bridged, 10 k Ω unbalanced

Key Features

Built-in counter for harmonic and intermodulation measurements

HP-IB programmable interface for automated test integration

Multiple input impedance options for diverse measurement scenarios

100 dB dynamic range after calibration

Approximately 20 kg weight

Typical Applications

Signal analysis in telecommunications, audio systems, sonar, and HF radio design, manufacturing, and field maintenance.

Compatibility & Integration

Designed to work with the HP 3336C Synthesizer/Level Generator for automatic tracking measurements.

Features & description

From manufacturer datasheet

Features

- Frequency range: 50 Hz–32.5 MHz (50/75 Ω unbalanced); 600 Ω balanced to ~108 kHz class •
- Frequency resolution: 0.1 Hz; accuracy $\pm 1 \times 10^{-6}$ /year class ($\pm 2 \times 10^{-7}$ /year with Opt 004) • Bandwidth (3 dB): 20 Hz, 400 Hz, 3100 Hz ($\pm 10\%$) • Level range: approximately +20 to –130 dBm class; 0.01 dB resolution • Level accuracy (+20 to –80 dB class): ± 0.20 dB (20 kHz–18 MHz); ± 0.25 dB (18–32.5 MHz)
- Input impedances: 50, 75, 10 k Ω unbalanced; 600 Ω bridged/balanced • HP-IB programmable; built-in frequency counter • Image/IF rejection: –80 dBc class (image); IF rejection –80/–60 dBc class •
- Companion tracking generator: HP 3336C (10 Hz–21 MHz, –70 to +8 dBm)

3586C Characteristics / Specifications

PARAMETER	VALUE
Model	3586C
Manufacturer	Hewlett-Packard / Agilent
Instrument Type	Selective Level Meter / Wave Analyzer
Family	HP 3586 Series
Alias	HP 3586C; Agilent 3586C RF / Level 50 Hz–32.5 MHz; 0.01 dB res; BW 20/400/3100 Hz Operational Notes Prefer HP 3586A/B/C specification summary. C model lacks Opt 001/003 telephone impairment features of A/B. Confirm Opt 004 high-stability reference if frequency accuracy is critical.
Frequency range	50 Hz–32.5 MHz (50/75 Ω unbalanced); 600 Ω balanced to ~108 kHz class
Frequency resolution	0.1 Hz; accuracy $\pm 1 \times 10^{-6}$ /year class ($\pm 2 \times 10^{-7}$ /year with Opt 004)
Bandwidth (3 dB)	20 Hz, 400 Hz, 3100 Hz ($\pm 10\%$)
Level range	approximately +20 to –130 dBm class; 0.01 dB resolution
Level accuracy (+20 to –80 dB class)	± 0.20 dB (20 kHz–18 MHz); ± 0.25 dB (18–32.5 MHz)
Input impedances	50, 75, 10 k Ω unbalanced; 600 Ω bridged/balanced
Image/IF rejection	–80 dBc class (image); IF rejection –80/–60 dBc class
Companion tracking generator	HP 3336C (10 Hz–21 MHz, –70 to +8 dBm)
Bandwidth	(3 dB): 20 Hz, 400 Hz, 3100 Hz ($\pm 10\%$) - Level range: approximately +20 to –130 dBm class; 0.01 dB resolution - Level accuracy (+20 to –80 dB class): ± 0.20 dB (20 kHz–18 MHz); ± 0.25 dB (18–32.5 MHz) - Input impedances: 50, 75, 10 k Ω unbalanced; 600 Ω

3586C Specifications

PARAMETER	VALUE
HP / Agilent 3586C Selective Level Meter	Overview
Key Features	- Frequency range: 50 Hz–32.5 MHz (50/75 Ω unbalanced); 600 Ω balanced to ~108 kHz class
Technical Specifications	Model: 3586C
RF / Level	50 Hz–32.5 MHz; 0.01 dB res; BW 20/400/3100 Hz

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

Specifications

PARAMETER	VALUE
Model	3586C
Manufacturer	Hewlett-Packard / Agilent
Instrument Type	Selective Level Meter / Wave Analyzer
Family	HP 3586 Series
Alias	HP 3586C; Agilent 3586C

RF / Level

50 Hz-32.5 MHz; 0.01 dB res; BW 20/400/3100 Hz

Operational Notes

Prefer HP 3586A/B/C specification summary. C model lacks Opt 001/003 telephone impairment features of A/B. Confirm Opt 004 high-stability reference if frequency accuracy is critical.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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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.