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Data Sheet

August 8, 2026

HP / AGILENT

HP / Agilent 3586B Selective Level Meter

The HP 3586B is a selective level meter configured for North American (Bell) telecommunications standards. It provides frequency-selective amplitude measurements from voice-channel frequencies through carrier frequencies up to 32.5 MHz, with microprocessor control, HP-IB programmability, and optional impairment measurements (impulse noise, phase jitter, noise-with-tone). Companion tracking synthesizer is the HP 3336B. Bell-standard carrier and FDM multiplex level measurements; voice-channel and carrier-frequency selective level; impulse noise / phase jitter / idle-channel noise (with options); tracking-generator network response with 3336B; automated HP-IB production test.



MODEL

HP / Agilent 3586B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

3586B

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 3586B Selective Level Meter is a precision instrument for telecommunications signal analysis in Frequency Division Multiplex (FDM) systems. It delivers simultaneous frequency and amplitude measurements across voice channels and carrier frequencies from 200 Hz to 32.5 MHz, with 0.1 Hz resolution and 9-digit LED display. The instrument supports multiple balanced and unbalanced input configurations - 75 Ω , 124 Ω , 135 Ω , and 600 Ω - accommodating diverse network topologies. Amplitude measurement spans +25 dBm to -120 dBm with 0.01 dB resolution and noise floors as low as -120 dBm. Selectivity is addressed through CCITT-standard 3 dB bandwidths (20 Hz, 400 Hz, 3100 Hz), psophometric weighting options, and image/IF rejection

exceeding -80 dBc. The 3586B integrates demodulated audio output, transmission impairment analysis (impulse noise, phase jitter, signal-to-noise ratio with tone), and full HP-IB programmability. Center frequency accuracy reaches $\pm 1 \times 10^{-5}$ /year, upgradeable to $\pm 2 \times 10^{-7}$ /year with Option 004. Wideband power accuracy spans 100 dB with ± 0.35 dB performance in critical 4 kHz to 10 MHz band. Intermodulation and harmonic distortion measurements operate at 75 dB and 70 dB below full scale respectively. Designed for Bell standards compliance, the 3586B suits design, manufacturing, installation, and maintenance workflows.

Technical Specifications

Frequency Measurement Coverage: 200 Hz to 32.5 MHz Resolution: 0.1 Hz Center frequency accuracy: $\pm 1 \times 10^{-5}$ /year ($\pm 2 \times 10^{-7}$ /year with Option 004) Counter accuracy: ± 1.0 Hz Amplitude Measurement Range: +25 dBm to -120 dBm Resolution: 0.01 dB Wideband power accuracy (4 kHz to 10 MHz): ± 0.35 dB Noise floor: -120 dBm (10 kHz to 100 kHz); -116 dBm (100 kHz to 32.5 MHz) Selectivity & Rejection CCITT bandwidths: 20 Hz, 400 Hz, 3100 Hz IF rejection: -80 dBc @ 15625 Hz; -60 dBc @ 50 MHz Image rejection (100–132 MHz): -80 dBc Spurious rejection: >1600 Hz offset: -80 dBc Signal Inputs 75 Ω unbalanced (200 Hz to 32.5 MHz) 600 Ω balanced (100 Hz to 108 kHz) 124 Ω & 135 Ω balanced (4 kHz to 10 MHz & 1 MHz respectively) Demodulation Audio output: 0 dBm into 600 Ω load Measurement units: dBmO, dBmCO, dBpW

Key Features

- Multi-standard input impedance support for FDM systems
- Programmable via HP-IB interface
- Optional 1740 Hz equivalent noise bandwidth filter (Option 002)
- Transmission impairment analysis: impulse noise, phase jitter, signal-to-noise with tone
- Low-distortion mode for 75 Ω and 600 Ω inputs

Typical Applications

- Telecommunications carrier and voice channel measurement
- FDM signal analysis in design and manufacturing
- Network installation and maintenance testing
- Bell standard compliance verification

Compatibility & Integration

Full HP-IB programmability enables integration into automated test systems. WECO connectors standardize interface with telecommunications equipment.

Features & description

From manufacturer datasheet

Features

- Frequency coverage: voice channel (~50 Hz–100 kHz) and carrier to 32.5 MHz • Frequency resolution: 0.1 Hz class; Opt 004 high-stability reference available • Bandwidths: 20 Hz, 400 Hz, plus Bell-oriented filters (1740/2000 Hz class); Opt 003 adds 3100 Hz + weighting • Level range: approximately +20 to –120/–130 dBm class; 0.01 dB resolution • Level accuracy: ± 0.2 dB class over midband (confirm table for exact band) • Bell impedances: 75 Ω / 10 k Ω unbalanced; 124 Ω , 135 Ω , 600 Ω / 10 k Ω balanced • Image rejection: –80 dBc class (100–132 MHz); IF rejection –80/–60 dBc class • Opt 003 impairments: impulse noise, phase jitter, noise/tone, C-message BW • HP-IB fully programmable; auto channel alignment for 1004 Hz Bell test tone • Companion: HP 3336B synthesizer/level generator (tracking)

3586B Characteristics / Specifications

PARAMETER	VALUE
Model	3586B
Manufacturer	Hewlett-Packard / Agilent
Instrument Type	Selective Level Meter (Bell / North American)
Family	HP 3586 Series
Alias	HP 3586B; Agilent 3586B RF / Level to 32.5 MHz; Bell Z; Opt 003 impairments optional Operational Notes
Prefer HP 3586A/B/C specification summary	use B (Bell) columns. Distinct from 3586A (CCITT) and 3586C (general-purpose). Confirm Opt 001/003/004 on unit.
Frequency coverage	voice channel (~50 Hz–100 kHz) and carrier to 32.5 MHz
Frequency resolution	0.1 Hz class; Opt 004 high-stability reference available
Bandwidths	20 Hz, 400 Hz, plus Bell-oriented filters (1740/2000 Hz class); Opt 003 adds 3100 Hz + weighting
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Bell impedances	75 Ω / 10 k Ω unbalanced; 124 Ω , 135 Ω , 600 Ω / 10 k Ω balanced
Image rejection	–80 dBc class (100–132 MHz); IF rejection –80/–60 dBc class
Opt 003 impairments	impulse noise, phase jitter, noise/tone, C-message BW
Companion	HP 3336B synthesizer/level generator (tracking)

3586B Specifications

PARAMETER	VALUE
HP / Agilent 3586B Selective Level Meter	Overview
Key Features	- Frequency coverage: voice channel (~50 Hz–100 kHz) and carrier to 32.5 MHz
Technical Specifications	Model: 3586B
RF / Level	to 32.5 MHz; Bell Z; Opt 003 impairments optional

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

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RF / Level

to 32.5 MHz; Bell Z; Opt 003 impairments optional

Operational 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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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.