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Data Sheet

August 1, 2026

HP

HP 8340B AND 8341B Synthesized Sweeper Operating Manual.

The HP / Agilent 8340B and 8341B are broadband synthesized sweepers that combine synthesizer frequency precision with analog sweep-oscillator convenience in one HP-IB controllable instrument. The 8340B covers 10 MHz to 26.5 GHz; the 8341B covers 10 MHz to 20 GHz. Both use indirect synthesis for low SSB phase noise comparable to 867x synthesized generators, with calibrated output down to -110 dBm, AM/FM/pulse modulation, and narrow-to-wide analog sweeps. Keysight still publishes the combined 8340B/41B operating and calibration manuals for support of these obsolete products. Microwave network analysis (e.g., with 8510), scalar and vector swept measurements, CW microwave stimulus, ATE replacing separate sweeper/counter/synthesizer stacks, and general 10 MHz to 20/26.5 GHz synthesized source work. Phase noise: about -52 to -107 dBc/Hz class depending on offset/band (published summaries) Size (8340B class): about 188 mmHx 426 mmWx 610 mmDWeight: about 75 lb class Power: 100/120/220/240 VAC +/-10%, 48-66 Hz Keysight provides 8340B/41B Operating Guide, Calibration Guide, and assembly/component service manuals for information-only support. This datasheet summarizes instrument specifications; it is not a substitute for the full operating manual procedures.

No photo

MODEL

HP 8340B

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

8340B

LISTING

**Off-catalog — OEM dat
asheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

Features & description

From manufacturer datasheet

Features

- 8340B: 10 MHz to 26.5 GHz; 8341B: 10 MHz to 20 GHz • Frequency resolution 1 to 4 Hz depending on band • Calibrated output approximately +10/+12 dBm to -110 dBm • Long-term stability about 1e-9/day
- Complete analog sweeper with widths as narrow as about 100 Hz • Pulse, AM, and FM modulation • Fast CW switching (typically better than 35 ms; faster with phase-lock) • Full HP-IB control

8340B Characteristics / Specifications

PARAMETER	VALUE
Models	8340B and 8341B
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Synthesized sweeper / signal generator Frequency 8340B: 10 MHz to 26.5 GHz 8341B: 10 MHz to 20 GHz
Resolution	1 to 4 Hz by band
CW Switching	typically better than 35 ms; about 11-22 ms with phase-lock enabled Output
Calibrated Range	about +10 dBm to -110 dBm (some listings +12 dBm max)
Output Level Resolution	0.1 dB
Internal Flatness / Level Accuracy	on the order of +/-0.6 to +/-3.6 dB flatness and about +/-0.9 dB level accuracy depending on range (published summaries)
RF Connector	APC-3.5 male (8340B); Type-N female 50 ohm (8341B typical) Modulation And Sweep AM, FM, pulse modulation Analog sweep from about 100 Hz width to full band
Phase noise	about -52 to -107 dBc/Hz class depending on offset/band (published summaries) General HP-IB interface
Size (8340B class)	about 188 mmHx 426 mmWx 610 mmDWeight: about 75 lb class
Power	100/120/220/240 VAC +/-10%, 48-66 Hz Documentation Note Keysight provides 8340B/41B Operating Guide, Calibration Guide, and assembly/component service manuals for information-only support. This datasheet summarizes instrument specifications; it is not a substitute for the full operating manual procedures.
8340B	10 MHz to 26.5 GHz; 8341B: 10 MHz to 20 GHz

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
Models	8340B and 8341B
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Synthesized sweeper / signal generator

Frequency
8340B: 10 MHz to 26.5 GHz
8341B: 10 MHz to 20 GHz
Resolution: 1 to 4 Hz by band
Long-term Stability: about 1 x 10⁻⁹ / day
CW Switching: typically better than 35 ms; about 11-22 ms with phase-lock enabled

Output

Specifications

PARAMETER	VALUE
Calibrated Range	about +10 dBm to -110 dBm (some listings +12 dBm max)
Output Level Resolution	0.1 dB
Internal Flatness / Level Accuracy	on the order of +/-0.6 to +/-3.6 dB flatness and about +/-0.9 dB level accuracy depending on range (published summaries)
RF Connector	APC-3.5 male (8340B); Type-N female 50 ohm (8341B typical)

Modulation And Sweep
AM, FM, pulse modulation
Analog sweep from about 100 Hz width to full band
Phase noise: about -52 to -107 dBc/Hz class depending on offset/band (published summaries)

General
HP-IB interface
Size (8340B class): about 188 mmHx 426 mmWx 610 mmDWeight: about 75 lb class
Power: 100/120/220/240 VAC +/-10%, 48-66 Hz

Documentation Note
Keysight provides 8340B/41B Operating Guide, Calibration Guide, and assembly/component service manuals for information-only support. This datasheet summarizes instrument specifications; it is not a substitute for the full operating manual procedures.

Operational Notes
Allow warm-up for synthesizer stability. Use appropriate connectors (3.5 mm vs Type-N) for each model.
Confirm installed options (attenuator, rear RF, low-harmonics Option 003 on 8341B, etc.) on the unit label.

Ordering Information

OPTION	DESCRIPTION
Option 003	on 8341B, etc.) on the unit label.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

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

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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.