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Data Sheet

August 1, 2026

HP

HP 53131A/132A/181A Counter Assembly-level Service Guide Manual Part 53131-90023

HP 53131A Universal Counter: Channels 1 and 2 to 225 MHz; optional Channel 3 to 3.0 GHz (Opt 030), 5.0 GHz (Opt 050), or 12.4 GHz (Opt 124). Frequency resolution 10 digits/s; time interval resolution 500 ps. About 200 measurements/s over HP-IB; suited to bench and lower-volume ATE. HP 53132A Universal Counter: Same 225 MHz CH1/CH2 architecture with optional microwave Channel 3 as above. Up to 12 digits/s frequency resolution and 150 ps time interval resolution; intended for higher-resolution ATE. HP 53131A / 53132A / 53181A Counter Assembly-Level Service Guide (Manual Part 53131-90023) HP part number 53131-90023 is the Assembly-Level Service Guide for the HP 53131A and HP 53132A Universal Counters and the HP 53181A Frequency Counter. HP operating documentation explicitly cites 53131-90023 as the self-repair / assembly-level service manual for these instruments. Later Agilent printings of the same guide family use part number 53131-90039 (for example March 1999 print). The guide covers performance verification, assembly-level troubleshooting, calibration-related procedures, and replaceable assemblies for the 225 MHz counter family.

No photo

MODEL

HP 53131A

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

53131A

LISTING

**Off-catalog — OEM dat
asheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

53131A Characteristics / Specifications

PARAMETER	VALUE
HP 53131A Universal Counter	Channels 1 and 2 to 225 MHz; optional Channel 3 to 3.0 GHz (Opt 030), 5.0 GHz (Opt 050), or 12.4 GHz (Opt 124). Frequency resolution 10 digits/s; time interval resolution 500 ps. About 200 measurements/s over HP-IB; suited to bench and lower-volume ATE.
HP 53132A Universal Counter	Same 225 MHz CH1/CH2 architecture with optional microwave Channel 3 as above. Up to 12 digits/s frequency resolution and 150 ps time interval resolution; intended for higher-resolution ATE.
HP 53181A Frequency Counter	Channel 1 to 225 MHz; optional Channel 2 to 1.5 GHz (Opt 015) or 3.0 GHz (Opt 030). Frequency resolution 10 digits/s. Technical Specifications (Document Identity)
Document Title	53131A/132A/181A Counter Assembly-Level Service Guide
HP Manual Part Number	53131-90023 (early HP citation in Operating Guide service section)
Later Agilent Manual Part Number	53131-90039 (common PDF title-page marking)
Publisher	Hewlett-Packard Company / Agilent Technologies (Santa Clara Division lineage)
Scope	Assembly-level service for HP 53131A, 53132A, and 53181A
Related Operating Guide	53131-90055
Related Programming Guide	53131-90044 Standard Operating Conditions Use the revision matching the instrument serial prefix. Apply Manual Updating Changes packages when the title-page prefix does not match the unit under repair. Operational Notes This datasheet describes the service guide document and the counters it supports. It is not a substitute for the full PDF procedures. Keysight later replaced this counter family with the 53200 series. Confirm whether the physical item is the printed/PDF manual only or a counter instr
Covers three related instruments	53131A, 53132A, and 53181A

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.

performance verification, assembly-level troubleshooting, calibration-related procedures, and replaceable assemblies for the 225 MHz counter family.

Applications

Field and depot repair after warranty; performance testing and calibration support; option identification and assembly replacement for 53131A / 53132A / 53181A counters; technical reference for technicians servicing HP/Agilent universal and frequency counters of this generation.

Key Features of the Manual

- Assembly-level (not component-level) service procedures
- Covers three related instruments: 53131A, 53132A, and 53181A
- Performance tests and troubleshooting flows
- Specifications chapters for the universal counters and the frequency counter
- Serial-prefix applicability notes (instruments may need Manual Updating Changes if prefixes differ)
- Companion manuals historically include Operating Guide 53131-90055 and Programming Guide 53131-90044

Instruments Covered

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Technical Specifications (Document Identity)

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Related Operating Guide	53131-90055
Related Programming Guide	53131-90044

Standard Operating Conditions

Use the revision matching the instrument serial prefix. Apply Manual Updating Changes packages when the title-page prefix does not match the unit under repair.

Operational Notes

This datasheet describes the service guide document and the counters it supports. It is not a substitute for the full PDF procedures. Keysight later replaced this counter family with the 53200 series. Confirm whether the physical item is the printed/PDF manual only or a counter instrument sold with the manual reference in the title.

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

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.