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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 8717B

The HP 8717B is a transistor bias supply built to bias devices in HP 11600B and 11602B transistor fixtures during s-parameter and network-analyzer characterization. OEM catalog listings give selectable voltage ranges of 1 V, 3 V, 10 V, 30 V, and 100 V plus current ranges of 0.1 mA, 0.3 mA, 1 mA, 3 mA, 30 mA, 100 mA, 300 mA, and 1000 mA, with front-panel voltage and current meters. A front-panel switch selects bias connections. Catalog option 001 adds a programmable D/A converter for automated bias. Manual or automatic DC bias of bipolar and FET transistors in 11600B/11602B fixtures during network-analyzer and transistor-parameter tests. Related Fixtures: 11600B and 11602B transistor fixtures Programmable Converter: catalog 001 programmable D/A converter Control Class: manual or automatic biasing for transistor testing Literature: HP 8717B Transistor Bias Supply operating and service manual 08717-90012



MODEL

**Agilent / Keysight
8717B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8717B

LISTING

<https://aumictechlabs.com/products/8717b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 8717B is a discontinued transistor bias supply unit. Originally designed to support network analyzer systems, this instrument functioned as a dedicated bias supply for transistor characterization and related RF measurement applications. While the 8717B itself was purpose-built as a bias supply, contemporary instruments from the same product family - such as the 8711B and 8713B network analyzers - operated across complementary frequency ranges, providing context for the measurement ecosystems in which the 8717B was deployed. Technical

Specifications The 8717B served as a bias supply component within larger network analyzer configurations. Related instruments from its era, the 8711B and 8713B, covered frequency ranges of 300 kHz to 1300 MHz and 300 kHz to 3000 MHz respectively. These systems supported optional AM delay measurement capabilities for frequency-translating device characterization. External scalar detectors, including the HP 86200B and 862001B, integrated with these platforms to extend measurement functionality.

Key Features Purpose-built transistor bias supply design
Integration with contemporary network analyzer platforms
Support for external scalar detector connectivity
Optional AM delay measurement capability (via system integration)

Typical Applications The 8717B supported transistor bias requirements in RF characterization labs, enabling precise DC operating point control for active device measurements. In conjunction with compatible network analyzers, it facilitated S-parameter extraction and frequency-dependent device characterization across multiple frequency bands.

Compatibility & Integration The 8717B functioned within the Agilent/Keysight network analyzer ecosystem of its era. Integration with external detectors such as the HP 86200B and 862001B expanded measurement capability. This instrument was part of a product family that included the 8711B and 8713B network analyzers, reflecting the modular measurement architecture of 1980s–1990s RF test systems.

8717B Characteristics / Specifications

PARAMETER	VALUE
Model	8717B
Instrument Type	Transistor bias supply
Voltage Ranges	1 V, 3 V, 10 V, 30 V, 100 V
Current Ranges	0.1 mA, 0.3 mA, 1 mA, 3 mA, 30 mA, 100 mA, 300 mA, 1000 mA
Metering	front panel voltage and current meters
Bias Connections	front panel switch selects bias connections
Related Fixtures	11600B and 11602B transistor fixtures
Programmable Converter	catalog 001 programmable D/A converter
Control Class	manual or automatic biasing for transistor testing
Manufacturer	HP Agilent Keysight
Use Case	transistor fixture DC bias
Literature	HP 8717B Transistor Bias Supply operating and service manual 08717-90012
Family	HP transistor test bias supplies
Form Factor	benchtop bias supply
System Role	DC bias source for transistor fixtures
Documentation Type	OEM 8717B catalog and service manual
Brand Lineage	Hewlett Packard Agilent Keysight
Year Class	1980s transistor fixture family
Operating Mode	manual front panel or automatic with 001
Related Network Analyzers	HP transistor s-parameter test setups using 11600B/11602B
Power Class	laboratory AC mains bias supply
Manual Identity	08717-90012 September 1982 operating and service manual

8717B Specifications

PARAMETER	VALUE
HP Agilent 8717B Transistor Bias Supply	Overview
Key Features	Voltage ranges 1 V to 100 V
Bias connection selector switch	Programmable D/A on catalog 001
Technical Specifications	Model: 8717B

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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Family	HP transistor test bias supplies
Form Factor	benchtop bias supply
System Role	DC bias source for transistor fixtures
Documentation Type	OEM 8717B catalog and service manual
Brand Lineage	Hewlett Packard Agilent Keysight
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Related Network Analyzers	HP transistor s-parameter test setups using 11600B/11602B
Power Class	laboratory AC mains bias supply
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Notes	
From HP 8717B catalog/service listings (1/3/10/30/100 V ranges; 0.1/0.3/1/3/30/100/300/1000 mA ranges; 11600B/11602B fixtures; 001 D/A). Meter accuracy, ripple, and programming bit weight are on the 8717B specification pages of 08717-90012.	

Ordering Information

OPTION	DESCRIPTION
Option 001	addsaprogrammable D/A converter for automated bias.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.