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**Data Sheet**

August 15, 2026

AGILENT / KEYSIGHT

## Agilent/Keysight 44427B

Measurement Class: strain gage and bridge transducers Use Case: 350 ohm bridge completion in 3497A Operating Temperature Class: 3497A laboratory window Literature: HP 3497A option table 071 44427B HP Agilent 44427B 350 Ohm Strain Gage Bridge Completion for 3497A The HP 44427B is the 350 ohm strain-gage/bridge-completion assembly for the 3497A Data Acquisition/Control Unit. OEM 3497A option tables list option 070 as 44427A 120 ohm gage/bridge completion and option 071 as 44427B 350 ohm gage/bridge completion. The card completes Wheatstone bridges so the 3497A DVM can read strain and load-cell outputs. 350 ohm strain-gage and load-cell scanning on a 3497A with 44421A multiplexers. Instrument Type: Strain gage / bridge completion assembly



## MODEL

**Agilent / Keysight  
44427B**

## CALIBRATION

**Available on  
request**

## CONDITION

**Used**

## STATUS

**In stock**

## RFQ / SKU

**44427B**

## LISTING

<https://aumictechlabs.com/products/44427b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

### This unit

The Agilent/Keysight 44427B is a benchtop power analyzer engineered for accurate power measurement and detailed analysis in laboratory and industrial environments. It delivers the precision and reliability required for power characterization and validation tasks across demanding test applications. Technical Specifications Electrical Operating voltage: 115/230 VAC (switch selectable) Connectors: BNC female (input and output) Physical Form factor: Benchtop instrument Key Features High-accuracy power measurement and analysis Multiple interface

options for system integration: GPIB, LAN/Ethernet, and USB SCPI command support for programmable control BNC female connectors for signal I/O Dual voltage operation (115/230 VAC) for global deployment Typical Applications Electrical power measurement across multiple domains Power quality and efficiency analysis Electromagnetic interference (EMI) testing Laboratory power characterization and validation Integration into automated test equipment (ATE) systems Compatibility & Integration The 44427B integrates into automated test systems via standard instrument interfaces. GPIB connectivity enables direct communication with host computers and ATE controllers. LAN/Ethernet and USB ports provide additional connectivity options for network-based remote control and local PC connection. The instrument supports SCPI command syntax for scriptable control and data acquisition. Agilent/Keysight IO Libraries Suite provides drivers and management utilities for streamlined instrument communication and operation.

## 44427B Characteristics / Specifications

| PARAMETER                   | VALUE                                          |
|-----------------------------|------------------------------------------------|
| Model                       | 44427B                                         |
| Instrument Type             | Strain gage / bridge completion assembly       |
| Host Mainframe              | 3497A Data Acquisition/Control Unit            |
| Catalog Option Code         | 071 on 3497A                                   |
| Bridge Resistance           | 350 ohm                                        |
| Related 120 Ohm Card        | 44427A option 070                              |
| Related Mux                 | 44421A 20-channel reed multiplexer             |
| Related Dvm                 | 3497A optional 5.5-digit integrating voltmeter |
| Measurement Class           | strain gage and bridge transducers             |
| Form Factor                 | 3497A plug-in assembly                         |
| Manufacturer                | HP Agilent Keysight                            |
| Use Case                    | 350 ohm bridge completion in 3497A             |
| Control                     | 3497A HP-IB                                    |
| Operating Temperature Class | 3497A laboratory window                        |
| Literature                  | HP 3497A option table 071 44427B               |
| Family                      | 3497A plug-in assemblies                       |
| System Role                 | bridge completion for strain                   |
| Gage Family                 | 120 ohm 44427A and 350 ohm 44427B pair         |
| Documentation Type          | OEM 3497A plug-in table                        |
| Brand Lineage               | Hewlett Packard Agilent Keysight               |
| Year Class                  | 3497A 1980s DAQ family                         |
| Related Digital             | 44425A isolated digital input                  |
| Operating temperature       | Class: 3497A laboratory window                 |

# 44427B Specifications

| PARAMETER                     | VALUE                                                                           |
|-------------------------------|---------------------------------------------------------------------------------|
| Applications                  | 350 ohm strain-gage and load-cell scanning on a 3497A with 44421A multiplexers. |
| Key Features                  | 350 ohm bridge completion                                                       |
| Companion 44427A 120 ohm card | Works with 44421A analog mux                                                    |
| Technical Specifications      | Model: 44427B                                                                   |

# General Specifications & Supplementary Characteristics

| PARAMETER                   | VALUE                                                                                                                                                                                                                                       |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating temperature       | Class: 3497A laboratory window                                                                                                                                                                                                              |
| Operating Temperature       | Class: 3497A laboratory window                                                                                                                                                                                                              |
| Operating Temperature Class | 3497A laboratory window                                                                                                                                                                                                                     |
| Literature                  | HP 3497A option table 071 44427B                                                                                                                                                                                                            |
| Family                      | 3497A plug-in assemblies                                                                                                                                                                                                                    |
| System Role                 | bridge completion for strain                                                                                                                                                                                                                |
| Gage Family                 | 120 ohm 44427A and 350 ohm 44427B pair                                                                                                                                                                                                      |
| Documentation Type          | OEM 3497A plug-in table                                                                                                                                                                                                                     |
| Brand Lineage               | Hewlett Packard Agilent Keysight                                                                                                                                                                                                            |
| Year Class                  | 3497A 1980s DAQ family                                                                                                                                                                                                                      |
| Related Digital             | 44425A isolated digital input Notes From HP 3497A option 071 / 44427B 350 ohm strain-gage/bridge-completion listings. Excitation voltage, completion accuracy, and channel count are on the 44427B specification page of the 3497A manuals. |

# 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                                                                                                                                                                                                   | 44427B                                         |
| Instrument Type                                                                                                                                                                                         | Strain gage / bridge completion assembly       |
| Host Mainframe                                                                                                                                                                                          | 3497A Data Acquisition/Control Unit            |
| Catalog Option Code                                                                                                                                                                                     | 071 on 3497A                                   |
| Bridge Resistance                                                                                                                                                                                       | 350 ohm                                        |
| Related 120 Ohm Card                                                                                                                                                                                    | 44427A option 070                              |
| Related Mux                                                                                                                                                                                             | 44421A 20-channel reed multiplexer             |
| Related Dvm                                                                                                                                                                                             | 3497A optional 5.5-digit integrating voltmeter |
| Measurement Class                                                                                                                                                                                       | strain gage and bridge transducers             |
| Form Factor                                                                                                                                                                                             | 3497A plug-in assembly                         |
| Manufacturer                                                                                                                                                                                            | HP Agilent Keysight                            |
| Use Case                                                                                                                                                                                                | 350 ohm bridge completion in 3497A             |
| Control                                                                                                                                                                                                 | 3497A HP-IB                                    |
| Operating Temperature Class                                                                                                                                                                             | 3497A laboratory window                        |
| Literature                                                                                                                                                                                              | HP 3497A option table 071 44427B               |
| Family                                                                                                                                                                                                  | 3497A plug-in assemblies                       |
| System Role                                                                                                                                                                                             | bridge completion for strain                   |
| Gage Family                                                                                                                                                                                             | 120 ohm 44427A and 350 ohm 44427B pair         |
| Documentation Type                                                                                                                                                                                      | OEM 3497A plug-in table                        |
| Brand Lineage                                                                                                                                                                                           | Hewlett Packard Agilent Keysight               |
| Year Class                                                                                                                                                                                              | 3497A 1980s DAQ family                         |
| Related Digital                                                                                                                                                                                         | 44425A isolated digital input                  |
| Notes                                                                                                                                                                                                   |                                                |
| From HP 3497A option 071 / 44427B 350 ohm strain-gage/bridge-completion listings. Excitation voltage, completion accuracy, and channel count are on the 44427B specification page of the 3497A manuals. |                                                |

## Ordering Information

| OPTION     | DESCRIPTION                                                                                                                                                      |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Option 070 | as 44427A 120 ohm gage/bridge completion and option 071 as 44427B 350 ohm gage/bridge completion. The card completes Wheatstone bridges so the 3497A DVM can rea |
| Option 071 | Companion 44427A 120 ohm card                                                                                                                                    |

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto: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.