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Data Sheet

August 13, 2026

KEYSIGHT / AGILENT / HP

Keysight / Agilent / HP 44422A Relay Multiplexer Thermocouple Compensation Terminal Block (Terminal Block Only)

HP Agilent 44422A Relay Multiplexer Thermocouple Compensation Terminal (Block Only) The HP 44422A listing here is the thermocouple compensation terminal block only (not the full 44422A relay multiplexer card). It provides cold-junction compensation terminals for 3497A-family thermocouple scanning. The 3498A extender in this catalog hosts 3497A cards. The HP 44422A listing here is the thermocouple compensation terminal block only (not the full 44422A relay multiplexer card). It provides cold-junction compensation terminals for 3497A-family thermocouple scanning. The 3498A extender in this catalog hosts 3497A cards.

**MODEL****Keysight / Agilent /
HP 44422A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****44422A****LISTING**[https://aumictechlabs.c
om/products/44422a-
2/](https://aumictechlabs.com/products/44422a-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight 44422A is a relay multiplexer thermocouple compensation terminal block designed as a plug-in assembly for the HP 3497A Data Acquisition/Control Unit. This detachable terminal card assembly provides isothermal reference junction compensation to eliminate measurement errors in thermocouple-based temperature acquisition systems. It supports both hardware and software compensation techniques, enabling flexible deployment across single or mixed

thermocouple type configurations. Technical Specifications Maximum Input Voltage: Less than 170 V peak between any two input terminals Maximum Current: 50 mA per channel (non-inductive) Maximum Power: 0.5 VA per channel Reference Junction Compensation Accuracy: 1°C Thermal Offset (Direct Switched): Less than 1 μ V differential Thermal Offset (Tree Switched): Less than 2 μ V differential Closed Channel Resistance (Series): 100 Ω $\pm$ 10% in High, Lo, and Guard Relay Contact Resistance: Less than 1 Ω per contact Key Features Isothermal connector block eliminates unwanted thermocouple measurement errors Hardware Compensation Mode: Supports up to 20 thermocouples per assembly; single thermocouple type (B, E, J, K, R, S, or T) Software Compensation Mode: Supports up to 19 thermocouples per assembly; mixed thermocouple types with programmatic voltage-to-temperature conversion Capable of voltage and resistance measurements in addition to thermocouple temperature acquisition Modular design with detachable relay card and terminal card components Typical Applications Multi-channel thermocouple temperature monitoring in data acquisition systems requiring reference junction compensation. Applicable to systems needing either homogeneous or heterogeneous thermocouple arrays with software-based calibration. Compatibility & Integration Host System: HP/Agilent/Keysight 3497A Data Acquisition/Control Unit (Option 020 plug-in assembly) Supported Thermocouple Types (Hardware Mode): B, E, J, K, R, S, T

Features & description

From manufacturer datasheet

Features

- Terminal block only (this listing)
-

Applications

- 3497A thermocouple mux compensation block

44422A Characteristics / Specifications

PARAMETER	VALUE
Model	44422A
Manufacturer	Hewlett Packard / Agilent / Keysight
Instrument Type	Thermocouple Compensation Terminal Block
Alias	44422A terminal block
Listing Scope	terminal block only (not the relay card)
Parent Card	44422A relay multiplexer with T/C compensation
Parent System	3497A data acquisition / 3498A extender
Function	cold junction compensation terminals
Sensor	thermocouples
Not The Relay Card	block only on this listing
Form	compensation terminal assembly
Related 3498A	extension mainframe
Voltage Class	low-level T/C
Status	HP 3497A accessory EOL
Installation	mates to 44422A mux
Documentation	3497A/44422A T/C terminals
Use	CJC landing
Compatibility	44422A mux
ESD	handle with mux
Wiring	T/C plus CJC sensors on block
Scan Mate	3497A voltmeter
Not 34922T	different 34980 family
Identification	44422A block

PARAMETER	VALUE
Calibration	CJC characterization with 3497A Notes This listing is the 44422A thermocouple compensation terminal block only. Relay-card channel count and volts belong to the 44422A mux card if present. Confirm block versus card.

44422A Specifications

PARAMETER	VALUE
Applications	- 3497A thermocouple mux compensation block
Key Features	- Terminal block only (this listing)
Technical Specifications	Model: 44422A

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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PARAMETER	VALUE
Model	44422A
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Instrument Type	Thermocouple Compensation Terminal Block
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Sensor	thermocouples
Specifications	
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Related 3498A	extension mainframe
Specifications	
PARAMETER	VALUE
Voltage Class	low-level T/C
Status	HP 3497A accessory EOL
Installation	mates to 44422A mux

Specifications

PARAMETER	VALUE
Documentation	3497A/44422A T/C terminals
Use	CJC landing
Compatibility	44422A mux

Specifications

PARAMETER	VALUE
ESD	handle with mux
Wiring	T/C plus CJC sensors on block
Scan Mate	3497A voltmeter

Specifications

PARAMETER	VALUE
Not 34922T	different 34980 family
Identification	44422A block
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Notes

This listing is the 44422A thermocouple compensation terminal block only. Relay-card channel count and volts belong to the 44422A mux card if present. Confirm block versus card.

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.