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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 44428A

HP Agilent 44428A 16 Channel Actuator Digital Output for 3497A The HP 44428A is a 16-channel actuator/digital-output assembly for the 3497A Data Acquisition/Control Unit. OEM 3497A listings state 44428A consists of 16 mercury-wetted Form C (SPDT) relays. Each relay can be closed individually. Maximum voltage is 100 V peak and maximum current is 1 A. The assembly switches fixture power, alarms, or general digital outputs and can be wired as matrix. 3497A digital actuation of fixtures, alarms, and power sequencing. The HP 44428A is a 16-channel actuator/digital-output assembly for the 3497A Data Acquisition/Control Unit. OEM 3497A listings state 44428A consists of 16 mercury-wetted Form C (SPDT) relays. Each relay can be closed individually. Maximum voltage is 100 V peak and maximum current is 1 A. The assembly switches fixture power, alarms, or general digital outputs and can be wired as matrix. 3497A digital actuation of fixtures, alarms, and power sequencing. Instrument Type: Actuator / digital output assembly



MODEL

**Agilent / Keysight
44428A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

44428A

LISTING

<https://aumictechlabs.com/products/44428a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 44428A is a 16-channel actuator output module purpose-built for the Keysight 3497A Data Acquisition System. It has 16 Form C (SPDT) mercury-wetted relays capable of operating in actuator mode for power switching or digital output mode for parallel logic control.

Each channel independently handles up to 1 A at 100 V peak, making it suitable for fixture actuation and external device control in automated test environments.

Technical Specifications

Relay Type: Form C (SPDT) mercury-wetted relays Channel Count: 16 independent channels Maximum Switching Voltage: 100 V (peak) per channel Maximum Switching Current: 1 A per channel Output Format (Digital Mode): 16-bit parallel digital output Module Composition: Main relay board with connector block

Key Features

Dual-mode operation: actuator mode for active power switching; digital output mode for static logic levels Individually controllable relay channels enable selective actuation of test equipment and fixtures Mercury-wetted relay contacts provide reliable switching across the full voltage and current range 16-bit parallel output interface supports synchronized multi-channel control

Typical Applications

Automated test system power distribution, test fixture relay switching, external device actuation, parallel digital control in data acquisition workflows, and multi-channel switching matrices in bench and production environments.

Compatibility & Integration

The 44428A integrates directly with the Keysight 3497A Data Acquisition System. Expanded digital I/O capability is available through pairing with the 16 Channel Isolated Digital Input/Interrupt Assembly (Option 050).

44428A Characteristics / Specifications

PARAMETER	VALUE
Model	44428A
Instrument Type	Actuator / digital output assembly
Host Mainframe	3497A Data Acquisition/Control Unit
Catalog Option Code	110 on 3497A
Channel Count	16
Relay Form	mercury-wetted FormCSPDT
Maximum Voltage	100 V peak
Maximum Current	1 A
Switching Use	test fixture power or alarm bells
Matrix Use	digital output or matrix switch wiring class
Related Digital In	44425A 16-channel isolated digital input
Form Factor	3497A plug-in assembly
Manufacturer	HP Agilent Keysight
Use Case	actuator outputs in 3497A
Control	3497A HP-IB individual relay close
Operating Temperature Class	3497A laboratory window
Literature	HP 3497A 44428A 16-channel actuator listings
Family	3497A plug-in assemblies
System Role	digital actuator
Documentation Type	OEM 3497A plug-in table
Brand Lineage	Hewlett Packard Agilent Keysight
Year Class	3497A 1980s DAQ family
Operating temperature	Class: 3497A laboratory window

44428A Specifications

PARAMETER	VALUE
Applications	3497A digital actuation of fixtures, alarms, and power sequencing.
Fixture power or alarm drive	3497A option 110 class actuator
Technical Specifications	Model: 44428A

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 44428A 16-channel actuator listings
Family	3497A plug-in assemblies
System Role	digital actuator
Documentation Type	OEM 3497A plug-in table
Brand Lineage	Hewlett Packard Agilent Keysight
Year Class	3497A 1980s DAQ family Notes From HP 3497A / 44428A actuator listings (16 mercury-wetted FormCSPDT, 100 V peak, 1 A). Operate time, life, and connector assembly details are on the 44428A specification page.

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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Ordering Information

OPTION	DESCRIPTION
Option 110	class actuator

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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30-day returns
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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.