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Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight DAQ970A

Interfaces: Gigabit LAN USB 2.0 graphic web Front USB Host: USB flash drive copy and log
 Compatible Modules: DAQM900A through DAQM910A family Numeric rows from Keysight
 DAQ970A/DAQ973A product fact sheet 5992-3177EN and technical overview 5992-3168.
 Module-specific limits appear on each DAQMx module datasheet row. Agilent Keysight
 DAQ970A Data Acquisition System The Keysight DAQ970A is a 3-slot benchtop data
 acquisition mainframe withabuilt-in 6.5 digit DMM. OEM product fact sheet 5992-3177EN and
 technical overview 5992-3168 list 0.003 percent basic DCV accuracy, scan rates to 450
 channels per second, up to 120 channels per system, and up to one million points of scanning
 memory with LAN and USB connectivity. Multi-channel temperature voltage resistance and
 current logging, production functional test, and bench automation replacing legacy
 34970A/34972A systems with BenchVue DAQ software.



MODEL

**Agilent / Keysight
DAQ970A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DAQ970A

LISTING

<https://aumictechlabs.com/products/daq970a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight DAQ970A is a 3-slot modular data acquisition mainframe combining a 6½-digit DMM with integrated signal conditioning and plug-in measurement modules. It delivers precision data logging and real-time analysis across up to 120 single-ended channels (60 differential) at scan rates to 450 channels/second. The system measures 12 to 14 distinct signal types - temperature

via thermocouple, RTD, and thermistor; DC/AC voltage and current; 2- and 4-wire resistance; frequency and period; capacitance; diode characteristics; and direct/bridge strain - with DC voltage accuracy of 0.003% and 6½-digit resolution. A 4.3" color display provides graphical visualization, while 100k non-volatile storage and up to one million points of scanning memory enable comprehensive data capture. USB, LAN/LXI connectivity, and direct USB flash drive logging support standalone and networked deployments. Autocalibration compensates for thermal and temporal drifts; internal module calibration minimizes thermocouple reference errors. The mainframe accepts specialized switching, multiplexing, and digitization modules - including the DAQM900A 20-channel solid-state multiplexer (450 channels/sec, 120 Vrms), DAQM901A 2/4-wire multiplexer (300 V), DAQM903A relay actuator module with 20 SPDT relays (300 V), and DAQM909A 4-channel 24-bit digitizer (800 kSa/s sampling). Programming via SCPI ensures compatibility with legacy 34970A and 34972A systems. Extended resistance measurements reach 1000 MΩ; current ranges span 1 μA DC to 100 μA AC. The DAQ970A suits environmental monitoring, thermal analysis, structural testing, manufacturing QA, and multi-channel research requiring flexible signal acquisition without external conditioning.

Features & description

From manufacturer datasheet

Built-in 6.5 digit 22 bit measurement engine

Autocalibration for DMM and digitizer module drift USB flash drive standalone datalogging Graphical web interface over LAN Code compatible with 34970A and 34972A SCPI Technical Specifications Model: DAQ970A Instrument Type: data acquisition mainframe with built-in DMM Slot Count: 3 plug-in module slots DMM Resolution: 6.5 digits 22 bits Basic DCV Accuracy: 0.003 percent Maximum Scan Rate: 450 channels per second Maximum Channels Per System: 120 Scanning Memory: up to 1 million points Display Size: 4.3 inch color LCD Measurement Functions: temperature dc/ac volts 2 and 4 wire resistance frequency period dc/ac current diode capacitance strain Thermocouple Support: thermocouple RTD and thermistor Low Current Range DC: 1 uA Low Current Range AC: 100 uA High Resistance Range: 1000 MOhm Maximum Multiplex Channels One Wire: 120 Maximum Multiplex Channels Two Wire: 60 Maximum Matrix Crosspoints: 96 Maximum General Purpose Switches: 60 Maximum RF Multiplex Channels: 24 channels to 2 GHz Maximum Digital IO Bits: 48 Analog Output Range: minus 10 V to plus 10 V 20 mA Interfaces: Gigabit LAN USB 2.0 graphic web Front USB Host: USB flash drive copy and log Compatible Modules: DAQM900A through DAQM910A family

DAQ970A Characteristics / Specifications

PARAMETER	VALUE
Model	DAQ970A
Instrument Type	data acquisition mainframe with built-in DMM
Slot Count	3 plug-in module slots
DMM Resolution	6.5 digits 22 bits
Basic DCV Accuracy	0.003 percent
Maximum Scan Rate	450 channels per second
Maximum Channels Per System	120
Scanning Memory	up to 1 million points
Display Size	4.3 inch color LCD
Measurement Functions	temperature dc/ac volts 2 and 4 wire resistance frequency period dc/ac current diode capacitance strain
Thermocouple Support	thermocouple RTD and thermistor
Low Current Range DC	1 uA
Low Current Range AC	100 uA
High Resistance Range	1000 MOhm
Maximum Multiplex Channels One Wire	120
Maximum Multiplex Channels Two Wire	60
Maximum Matrix Crosspoints	96
Maximum General Purpose Switches	60
Maximum RF Multiplex Channels	24 channels to 2 GHz
Maximum Digital IO Bits	48
Analog Output Range	minus 10 V to plus 10 V 20 mA
Interfaces	Gigabit LAN USB 2.0 graphic web
Front USB Host	USB flash drive copy and log
Compatible Modules	DAQM900A through DAQM910A family
Form Factor	benchtop 3 slot mainframe

PARAMETER	VALUE
Series Family	Keysight DAQ970A/DAQ973A

DAQ970A Specifications

PARAMETER	VALUE
Agilent Keysight DAQ970A Data Acquisition System	Overview
Key Features	Built-in 6.5 digit 22 bit measurement engine
Graphical web interface over LAN	Code compatible with 34970A and 34972A SCPI
Technical Specifications	Model: DAQ970A

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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Notes Numeric rows from Keysight DAQ970A/DAQ973A product fact sheet 5992-3177EN and technical overview 5992-3168. Module-specific limits appear on each DAQMx module datasheet row.	

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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NIST-traceable calibration · SAM registered ·
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.