
Agilent 34970a Service Manual

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Summary of Contents for
Agilent Technologies
34970A Page 1 • A
vertical bar (|) separates
multiple parameter choices.
Rules for Using a Channel
List Many of the SCPI
commands for the 34970A
include a scan_list or ch_list
parameter which allow you
to specify one or more
channels.
[Error Messages -](#)
[Keysight](#)
[34970A/34972A](#)
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successful.

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The 34970A is supported on
automated calibration systems
which allow Agilent to provide
this service at competitive prices.
Page 66: Time Required For
Calibration Chapter 4 Calibration
Procedures Time Required for

Calibration Time Required for
Calibration The 34970A can be
automatically calibrated under
computer control.
How to establish the connection
between 34970A and PC via
RS-232 cable USB Data Logging
with an Agilent 34972A Data
Acquisition System TSP #30 -
Agilent 53131A Universal
Counter Upgrade OPT-030
Analysis and Experiments
Connecting to a 34970A with
RS232 and connecting to
34972A Data Acquisition Unit
with LAN [Test and](#)
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[Episode 1 - 90-Second](#)
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Chipper6
USB Data Logging with 34972A

Data Acquisition System

Agilent 34970A - Complete Self Test Test and Measurement Basics – DAQ | Episode 11 – 2-Wire and 4-Wire Resistance Measurements ~~Agilent 34970A Data Acquisition Switch Unit #62131~~ Measuring Low Currents with a DMM

#7 - Agilent 66309D repair and calibration Truevolt Performance Series 6½ \u0026 7½ digit Digital Multimeters (34465A, 34470A) Ahilent HP 34401A - self test - the most popular digital multimeter Measuring and Observing Current using Oscilloscope and Shunt Resistor Agilent KeySight Authentic GPIB to USB Adapter HP 34401A post-repair calibration and test Agilent 34410A vs 34401A Test and Measurement Basics - DAQ | Episode 9 – AC Voltage and Current Measurements ~~Keysight DAQ970A Data Acquisition System Review~~ What is Included with a 34972A: First Time Setup of a 34972A Data Acquisition Unit Agilent 34970A - Full Self Test, Firmware Revision \u0026 Relay Cycle Count ~~HP 34970A Data Acquisition Switch Unit~~ Data Logger Pro Software for the Agilent 34970A, 34972A and 34980A Test and Measurement Basics - DAQ | Episode 7 – Connecting the 34970A to PC via GPIB Interface Making Humidity Measurements Using Agilent 34972A and Data Logging How To Check the Relay Cycle Counts on an Agilent 34970A and 34972A #2

Repair of Agilent 34401A Multimeter

The Keysight 34970A data acquisition / data logger switch consists of a three-slot mainframe with a built-in 6 1/2 digit digital multimeter. Each channel can be configured independently to measure one of 11 different functions without the added cost or hassles of signal-conditioning accessories. Agilent 34970A/72A Command Reference

How to establish the connection between 34970A and PC via RS-232 cable USB Data Logging with an Agilent 34972A Data Acquisition System TSP #30 - Agilent 53131A Universal Counter Upgrade OPT-030 Analysis and Experiments Connecting to a 34970A with RS232 and connecting to 34972A Data Acquisition Unit with LAN Test and Measurement Basics - DAQ | Episode 1 - 90-Second Measurement with DAQ Test and Measurement Basics - DAQ | Episode 3 – Unboxing Modules for the 34970A/34972A

Agilent 34970A Data Acquisition Control Unit ~~Inbox 0003: HP Agilent 34970A from Chipper6~~ USB Data Logging with 34972A Data Acquisition System Agilent 34970A - Complete Self Test Test and Measurement Basics – DAQ

| Episode 11 – 2-Wire and 4-Wire Resistance Measurements ~~Agilent 34970A Data Acquisition Switch Unit #62131~~ Measuring Low Currents with a DMM #7 - Agilent 66309D repair and calibration Truevolt Performance Series 6½ \u0026 7½ digit Digital Multimeters (34465A, 34470A) Ahilent HP 34401A - self test - the most popular digital multimeter Measuring and Observing Current using Oscilloscope and Shunt Resistor Agilent KeySight Authentic GPIB to USB Adapter HP 34401A post-repair calibration and test Agilent 34410A vs 34401A Test and Measurement Basics - DAQ | Episode 9 – AC Voltage and Current Measurements ~~Keysight DAQ970A Data Acquisition System Review~~ What is Included with a 34972A: First Time Setup of a 34972A Data Acquisition Unit Agilent 34970A - Full Self Test, Firmware Revision \u0026 Relay Cycle Count ~~HP 34970A Data Acquisition Switch Unit~~ Data Logger Pro Software for the Agilent 34970A, 34972A and 34980A Test and Measurement Basics - DAQ | Episode 7 – Connecting the 34970A to PC via GPIB Interface Making Humidity

[Measurements Using Agilent 34972A and Data Logging](#)
[How To Check the Relay Cycle Counts on an Agilent 34970A and 34972A #2 Repair of Agilent 34401A Multimeter 34901A 20 Channel Multiplexer \(2/4-wire\) Module for 34970A](#)

...
8 Keysight 34980A Service Guide 3 Store/recall menu allows you to save and recall up to six instrument setups 4 Control keys directly control module actions 5 Number keypad enters numerical characters 6 Exponent 7 Cancel key exits a menu without saving changes 8 Arrow keys move cursor positions 9 Knob enters alphanumeric characters, selects slots, channels, and navigates menus

[Keysight 34970A/34972A Data Acquisition/Switch Unit](#)

7.5 digit Truevolt DMM with patented Truevolt technology for greater accuracy and measurement insights. 16ppm basic DCV accuracy, 50K readings/s.

Technical Support: 34970A Data Acquisition / Data Logger ...

See the 34970A/34972A Service Guide for instructions on returning the instrument to Agilent for service. Page 165: Display Control Chapter 4 Features and Functions System-Related Operations Display Control For security reasons or for a slight increase in scanning rates, you may

want to turn off the front-panel display.

[Agilent technologies 34970A Manuals | ManualsLib](#)

Although the Agilent 34970A is currently in support by the OEM, Custom-Cal has been successful in performing test equipment repairs while staying below OEM cost. By repairing the original unit, you are not forced to make changes to your asset tracking system such as asset update or serial number changes.

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TECHNOLOGIES 34970A
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10 Keysight 34970A/34972A Service Guide The Keysight Technologies 34970A/34972A combines precision measurement capability with flexible signal connections for your production and development test systems. Three module slots are built into the rear of the instrument to accept any combination of data acquisition or switching modules.

[34970A Data Acquisition / Data Logger Switch Unit | Keysight](#)

Page 6 The Agilent 34970A is easy to use for a multitude of data logging and monitoring applications, either stand-alone or with a computer. Its flexible, modular design makes it scalable from 20 to 120 channels, and lets you add actuator, digital I/O, and analog output channels for simple control. Page 7: Data Logging

Feature Checklist

Keysight 34980A Multifunction Switch/ Measure Unit
Notice: This document contains references to Agilent Technologies. Agilent's former Test and Measurement business has become Keysight Technologies. For more information, go to www.keysight.com. This Help file contains reference information to help you program the Keysight 34970A/34972A over a remote interface using the programming language.

34470A Digital Multimeter, 7 ½ Digit, Truevolt DMM | Keysight

[Agilent 34970a Service Manual](#)

Only qualified, service-trained personal who are aware of the hazards involved should remove instrument covers. Always disconnect the power cable and any external circuits before removing the instrument cover. Do Not Modify the Instrument Do not install substitute parts or perform any unauthorized modification to the product.

[34902A 16 Channel Multiplexer \(2/4-wire\) Module for 34970A](#)

...
"Config data lost: RS-232" (34970A only) 748 "Cal checksum failed internal data" (34972A only) 749 "DMM relay count data lost" 811 Operation Not Implemented. 811 "Operation not implemented" 900-999 Module Errors. 901 "Module hardware: unexpected data received" 902 "Module hardware: missing stop bit" 903 Agilent 34970A Calibration &

...

The Keysight 34902A module for the 34970A/34972A Data Acquisition/Switch Unit employs reed relays to achieve scan rates up to 250 channels-per-second. Use this module for high-throughput automated test applications as well as high-speed data logging and monitoring tasks.

Keysight 34980A Data Acquisition System

The Keysight 34901A module for the 34970A/34972A Data Acquisition/Switch Unit is the most versatile multiplexer for general purpose scanning. It combines dense, multi-function switching with 60 channel/second scan rates to address a broad spectrum of data acquisition applications.

The 34970A Service Guide contains product specifications, calibration procedures, theory of operation, troubleshooting guidelines, replaceable parts lists, and schematics.