

# Keysight DAQ970A and DAQ973A Data Acquisition Systems

## Sample More Signals, Faster and Dynamically



1. USB drive
2. On/Standby switch with LED indicator
3. Color LCD Display / GUI
4. Softkeys
5. Measurement operation keys
6. Measurement configuration keys (to set measurement parameters)
7. Knob
8. Cursor navigation keypad

The DAQ970A / DAQ973A data acquisition systems have high quality switching and an advanced 6 ½ digit DMM built-in that allows you to measure accurately.

- The autocalibration compensates for drifts in the internal DMM or on the DAQM907A multifunction module or on the DAQM909A digitizer module caused by time and temperature change.
- Built-in internal module calibration reduces thermal voltage offset errors.
- Ability to measure very low current ranges (1  $\mu$ A DC and 100  $\mu$ A AC) and higher resistance range (1000 M $\Omega$ ).

## Key Features

- 3-slot mainframes with built-in 6 ½ digit DMM
- Basic 0.003% DCV accuracy
- 9 switch, RF and control plug-in modules, including a new 4-channel simultaneous sampling digitizer
- Up to 450 channel/s scan rate
- Up to 120 channels per system
- Up to one million points scanning memory
- Measures and converts 14 different input signals: Temperature with thermocouple, RTDs and thermistor; dc/ac volts; 2- and 4-wire resistance; frequency and period; dc/ac current, diode and capacitance; direct strain and bridge strain
- Large 4.3" color display for ease of setup and viewing data
- LAN and USB for easy connectivity to your PC (DAQ973A comes with additional GPIB)
- Code compatible with the 34970A/34972A
- USB flash drive support to copy/log data in standalone applications
- BenchVue DAQ with enhanced time/frequency domain measurement included

Learn more at: [www.keysight.com](http://www.keysight.com)

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## Key DAQ970A and DAQ973A Capabilities

Features	Description
Types of measurements	Temperature, voltage, current, resistance, frequency, diode and capacitance, direct strain and bridge strain
Digital Input/Output	Up to 48-bits
Analog output	-10 V to +10 V, 20 mA
Multiplexing	Maximum 120 (1-wire), 60 (2-wire) channels
Matrix switching	Maximum 96 cross points
General purpose	Maximum 60 switches
RF multiplexing	Maximum 24 channels, 2 GHz
Simultaneous sampling	Maximum 12 channels, up to 800 kSa/s, 24-bit resolution
Interface	Graphic web, USB front/rear, LAN/LXI, GPIB (only for DAQ973A)

## DAQ970A and DAQ973A Plug-in Modules

Part	Description
DAQ970A	DAQ mainframe with USB and LAN interfaces
DAQ973A	DAQ mainframe with USB, LAN and GPIB interfaces
DAQM900A	20-channel solid state multiplexer
DAQM901A	20-channel armature multiplexer + 2 current channels
DAQM902A	16-channel reed multiplexer
DAQM903A	20-channel actuator/GP switch
DAQM904A	4 x 8 matrix
DAQM905A	Dual 4-channel 50 Ω RF mux
DAQM907A	Multifunction module
DAQM908A	40-channel armature multiplexer
DAQM909A	4-channel 24-bit simultaneous sampling digitizer

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Rear image of the DAQ973A mainframe with USB, LAN and GPIB interfaces.



## DAQ970A / DAQ973A Accessories

Part	Description
DAQA190A	Rack mount kit
DAQA191A	2U dual flange kit
DAQA194A	Dual lock link kit
34307A	10-pack J-type thermocouples
34308A	5-pack 10 kΩ thermistors

For additional information, please go to: [www.keysight.com/find/daq](http://www.keysight.com/find/daq)

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