

# Keysight DAQ970A Data Acquisition System

## Sample More Signals, Faster



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 data acquisition system has 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 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

- DAQ970A data acquisition/switch unit (3-slots, up to 60 2-wire channels, 120 1-wire channels)
- Advanced 6 ½-digit DMM with improved accuracy and faster measurement speed
- Scan rate of up to 450 channels / sec with new solid state multiplexer module
- Intuitive LCD screen and soft keys for easy configuration and measurement display in multiple formats (number, bar meter, trend chart, histogram)
- SCPI programming language compatible with 34970A / 34972A
- USB datalogging and data mirroring using the front panel USB host port

## Key DAQ970A Capabilities

Features	Description
Types of measurements	Temperature, voltage, current, resistance, frequency, diode and capacitance
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 crosspoints
General purpose	Maximum 60 switches
RF multiplexing	Maximum 24 channels, 2 GHz
Interface	Graphic web, USB front/rear, LAN/LXI



## DAQ970A Service Options

Get greater peace of mind- standard-with Keysight's three-year warranty  
 Extended Warranty - Return to Keysight - 5 years (mainframe only)  
 Calibration Plan - Return to Keysight - 3 years

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

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

## DAQ970A Plug-in Modules

Part	Description
DAQ970A	Mainframe
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 $\Omega$ RF mux
DAQM907A	Multifunction module
DAQM908A	40-channel armature multiplexer



## DAQ970A Accessories

Part	Description
DAQA190A	Rack mount kit
DAQA191A	2U dual flange kit
DAQA194A	Dual lock link kit
BV0006B	BenchVue DAQ application (depending on 12-month license type & support subscription)
34307A	10-pack J-type thermocouples
34308A	5-pack 10 k $\Omega$ thermistors