

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 μ A DC and 100 μ A AC) and higher resistance range (1000 M Ω).

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
- BenchVue software included

Learn more at: www.keysight.com

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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 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 Ω RF mux |
| DAQM907A | Multifunction module |
| DAQM908A | 40-channel armature multiplexer |

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DAQ970A 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