

Keysight N432A Thermistor Power Meter

Replacement of the Keysight Technologies, Inc. legacy 432A analog power meter with enhancing functions at lower price

The highly anticipated replacement N432A thermistor power meter is loaded with useful enhancements, including a color digital display, and intuitive front panel interface. The high accuracy in measuring average power makes it ideal for metrology and calibration lab environments.



1. View test result easily with the high-resolution color LCD display.
2. Arrow keys and numeric keypad enable easy navigation and enter of numeric values.
3. Preset key to set the N432A to its default state.
4. Display keys allow selection of the display format and display mode for the active window.
5. Hard keys provide quick access to the most frequently used functions, such as System, Trigger and Acquisition etc.
6. Power reference of 1 mW (0 dBm), 50 MHz signal.
7. Line power accepts universal input voltage with automatic range selection.
8. Recorder output for closed loop external power monitoring.
9. V_{RF} and V_{COMP} output connection to external DMM for precise power measurement.
10. Go beyond GPIB with USB and LAN/LXI-C interface.

Essential specifications

- Frequency range: 100 kHz to 18 GHz (sensor dependent)
- Power range: -30 dBm (1 uW) to +10 dBm (10 mW)
- High Accuracy ($\leq 0.2\% \pm 0.5 \mu\text{W}$), excellent for 1 mW transfer calibration (with 478A-H75/H76)
- Built in 6.5 digit ADC eliminates the need of external DMM.
- Selectable bridge resistance (100/200/300/400 Ω)
- Remote interface flexibility (GPIB, USB, LXI-C)

Ordering information

Product	Descriptions
N432A	Thermistor power meter
Sensor options	
Options	Description
478A	Coaxial thermistor mount 10 MHz to 10 GHz
478A-H63	Frequency range 100 kHz to 1 GHz, max SWR 1.8 to 300 kHz, 1.3 to 1 GHz
478A-H75	Frequency range 1 MHz to 1 GHz, max SWR 1.3 except 1.05 at 50 MHz
478A-H76	Frequency range 1 MHz to 1 GHz, max SWR 1.3 except 1.05 at 50 MHz. Standard lab calibration at 50 MHz
8478B	Coaxial thermistor mount 10 MHz to 18 GHz

Accessories, calibration and documentation options

Options	Descriptions
N4998A	Thermistor sensor adaptor cable 5 ft. (1.5 m)
N4998B	Thermistor sensor adaptor cable 10 ft. (3 m)
N4998C	Thermistor sensor adaptor cable 20 ft. (6.1 m)
N432A-908	Rackmount kit - 1 unit with blank filler included
N432A-909	Rackmount kit with 2 units side by side

Manual options	Descriptions
N432A-OBK	English language user guide and programming guide
N432A-0BW	English language service guide, printed
N432A-0B1	English language user and installation guide; printed
N432A-ABJ	Japanese user guide and English programming guide
N432A-0BF	English language programming guide
N432A-A6J	Certificate of compliance calibration - ANSI/NCSL Z540
N432A-1A7	Compliant calibration test data - ISO17025



Keysight N432A, thermistor cable adaptor and thermistor sensors are all you need to perform accurate RF power measurements

The N432A comes with:

- Thermistor sensor adaptor cable 5 ft. (1.5 m)¹
- Power cord (country dependant)
- USB cable
- Keysight N432A thermistor power meter product reference CD-ROM
- English language user and installation guide, printed
- Calibration certificate
- IO libraries media suite

1. The 1.5 m standard cable can be replaced with 3 m or 6.1 m cable, charges applied.

Thermistor sensor compatibility

- Keysight 478A thermistor sensor
- Keysight 8478B thermistor sensor



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