

KEYSIGHT TECHNOLOGIES (AGILENT HP)

436A

The Keysight Technologies (formerly Agilent / HP) 436A is a high-performance, general-purpose digital RF and microwave power meter. It is designed for both manual and automatic power measurements over a wide frequency and power range using the HP 8480 series power sensors. The instrument displays measurements on a clear 4-digit LED display alongside an analog peaking meter for real-time tuning adjustments.

SPECIFICATIONS

General

Interfaces	GPIB (Option 022) / BCD (Option 024)
Display	4-digit LED display with auxiliary analog peaking meter

Physical

Power Supply	100 / 120 / 220 / 240 V AC (+5% -10%), 48 to 66 Hz or 360 to 440 Hz, < 23 VA
Operating Temperature	0 to 55 °C °C
Dimensions (W×H×D)	213 mm × 134 mm × 279 mm mm

Measurement Performance

Frequency Range	100 kHz to 110 GHz (sensor dependent)
Power Measurement Range	-70 to +44 dBm (100 pW to 25 W, sensor dependent)
Instrumentation Accuracy (Watts)	±0.5% of reading
Instrumentation Accuracy (dBm)	±0.02 dB
Instrumentation Accuracy (dB Relative)	±0.02 dB
Display Units	Watts, dBm, dB (relative)
Dynamic Range	50 dB (in 10 dB steps)

Internal Power Reference (Calibrator)

Reference RF Frequency	50 MHz
Reference RF Power Output	1.00 mW (0.00 dBm)
Reference Output Accuracy (20 °C to 30 °C)	±0.7%
Reference Output Accuracy (0 °C to 55 °C)	±1.2%
Reference Output VSWR	< 1.05
Reference Output Connector Type	Type-N (female)

Compatible Sensors & Inputs

Compatible Power Sensors	Agilent/HP 8480 series
Calibration Factor Range	85% to 100% in 1% discrete steps
Sensor Input Connector Location	Front panel (standard) or Rear panel (Option 002)

Display & User Interface

Display Resolution (Watts)	0.1% of full scale
Display Resolution (dBm/dB)	0.01 dB
Measurement Range Selection	Automatic and Manual
Zeroing Control	Front-panel pushbutton auto-zero

Connectivity & Interface Options

GPIB Remote Interface Option	Option 022
BCD Interface Option	Option 024
Recorder Analog Output Voltage	0 to 1.00 V into > 1 M Ω load
Recorder Analog Output Impedance	1 k Ω nominal

Power Requirements

Line Frequency Range	48 Hz to 66 Hz, and 360 Hz to 440 Hz
Line Voltage Settings	100 V / 120 V / 220 V / 240 V (+5%, -10%)

Physical Specifications

Form Factor	System II half-rack width
Net Weight	4.5 kg (9.9 lbs)
Shipping Weight	5.5 kg (12 lbs)

Environmental & Reliability

Storage Temperature Range	-40 to 75 °C
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Accessories & Configuration Options

Option 002	Rear panel sensor input connector (Reference Calibrator on rear)
Option 908	Rack flange kit for single-unit mounting
Option 909	Rack flange kit for side-by-side mounting

Options

Option 022	HP-IB interface
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Stability & Noise

Zero Set (HP 8481A/8482A/8483A)	$\pm 0.5\%$ of full scale on most sensitive range (Range 1)
Zero Drift (HP 8481A/8482A/8483A)	$\pm 0.2\%$ of full scale on most sensitive range (Range 1) over 1 hour at constant temperature
Measurement Noise (HP 8481A/8482A/8483A)	$\pm 0.1\%$ of full scale on most sensitive range (Range 1) typical

Response Time

Response Time (Range 1)	< 10 s (for 99% settled reading)
Response Time (Range 2)	< 1 s (for 99% settled reading)
Response Time (Range 3)	< 0.1 s (for 99% settled reading)
Response Time (Ranges 4 and 5)	< 0.04 s (for 99% settled reading)

TECHNOLOGY

RF and Microwave Power Meter

APPLICATIONS

Manual and automatic RF/microwave power measurements

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.