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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E5970A

HP Agilent Keysight E5970A Handheld Optical Power Meter Queue model E5970A is the HP / Agilent / Keysight E5970A handheld optical power meter for fiber-link install and maintenance. OEM E5970A listings rate wavelength 800 to 1600 nm, power plus 11 to minus 70 dBm, total uncertainty plus or minus 5 percent plus or minus 5 nW, calibrated wavelengths 850, 1300, 1310, and 1550 nm, fiber 9/125 um to 50/125 um, display dBm or W, built-in protective cap. Artisan configuration includes 81005FA FC optical interface adapter. Compatible adapter family 81005AA/FA/SA/VA/WA/JA/BA. Ship weight 5 lb class with case. Queue model E5970A is the HP / Agilent / Keysight E5970A handheld optical power meter for fiber-link install and maintenance. OEM E5970A listings rate wavelength 800 to 1600 nm, power plus 11 to minus 70 dBm, total uncertainty plus or minus 5 percent plus or minus 5 nW, calibrated wavelengths 850, 1300, 1310, and 1550 nm, fiber 9/125 um to 50/125 um, display dBm or W, built-in protective cap. Artisan configuration includes 81005FA FC optical interface adapter. Compatible adapter family 81005AA/FA/SA/VA/WA/JA/BA. Ship weight 5 lb class with case. Handheld optical power on multimode and single-mode fiber at 850/1300/1310/1550 nm for network install and maintenance.



MODEL

**Agilent / Keysight
E5970A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E5970A

LISTING

<https://aumictechlabs.com/products/e5970a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight E5970A is a handheld optical power meter for fiber optic network installation and maintenance. This compact, battery-powered instrument measures optical power across a broad wavelength range and delivers measurement uncertainty of $\pm 5\%$ or ± 5 nW. The meter supports relative power measurements with user-adjustable reference values, factory calibration at four standard telecom wavelengths, and compatibility with single-mode and multimode fiber connectors.

Technical Specifications
Wavelength Range: 800 to 1600 nm
Optical Power Range: -70 to +11 dBm
Measurement Units: dBm or W
Calibrated Wavelengths: 850 nm, 1300 nm, 1310 nm, 1550 nm
Fiber Type Compatibility: 9/125 μm to 50/125 μm
Total Uncertainty: $\pm 5\%$ or ± 5 nW
Auto-Off: Approximately 20 minutes (user-selectable)
Zeroing: Automatic calibration at power-on (≈ 20 seconds) and during operation (≈ 10 minute intervals)
Relative Power Mode: Presettable reference from +30 to -80 dBm

Key Features
Battery operation using two AA cells (alkaline 1.5V or NiCd 1.2V)
Optical connector adapters for FC, SC, and SMA interfaces
Compact dimensions: 95 mm (W) $\times$ 49 mm (H) $\times$ 195 mm (D)
Weight: Approximately 500 g with batteries and adapter
Operating temperature range: -10 to +55°C
Storage temperature range: -40 to +70°C
Non-condensing humidity operation

Typical Applications
Fiber optic link power measurement during installation, commissioning, and field maintenance. Relative power measurements for loss budgeting and troubleshooting. Multimode and single-mode fiber characterization.

Compatibility & Integration
Optical connectors include FC, SC, and SMA adapters. Recalibration interval: 2 years. Meets EN 50081-1 and EN 50082-1 electromagnetic compatibility standards.

E5970A Characteristics / Specifications

PARAMETER	VALUE
Model	E5970A
Instrument Type	handheld optical power meter
Wavelength Range	800 to 1600 nm
Power Range	plus 11 dBm to minus 70 dBm
Total Uncertainty	plus or minus 5 percent plus or minus 5 nW
Calibrated Wavelengths	850 nm, 1300 nm, 1310 nm, 1550 nm
Fiber Type	9/125 um to 50/125 um
Display Units	dBm or WProtective Cap: built-in
Adapter Example	81005FA FC optical interface adapter
Adapter Family	81005AA, 81005FA, 81005SA, 81005VA, 81005WA, 81005JA, 81005BA
Manufacturer	HP Agilent Keysight
Literature	Agilent/HP E5970A handheld optical power meter listings
Family	E5970 handheld optical power meters
Form Factor	handheld with protective case class
System Role	fiber-optic link power measurement
Application Class	network installation and maintenance
Ship Weight Class	5 lb with case (Artisan E5970A)
Brand Lineage	Hewlett Packard Agilent Keysight
Connector Class	interchangeable 81005 optical adapters
Use Case	SMF and MMF power at 850/1300/1310/1550 nm
Documentation Type	OEM E5970A handheld OPM listing
Meter Class	handheld optical power
Wavelength Class	800 to 1600 nm InGaAs/Ge class handheld
Uncertainty Class	plus or minus 5 percent plus or minus 5 nW total
Fiber Class	9/125 to 50/125 um

PARAMETER	VALUE
Display Class	dBm and watt

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Technical Specifications	
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Family	E5970 handheld optical power meters
Form Factor	handheld with protective case class
System Role	fiber-optic link power measurement
Application Class	network installation and maintenance
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Brand Lineage	Hewlett Packard Agilent Keysight
Connector Class	interchangeable 81005 optical adapters
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PARAMETER	VALUE
Display Class	dBm and watt

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Notes

From Agilent/HP E5970A handheld optical power meter listings (800 to 1600 nm, plus 11 to minus 70 dBm, plus or minus 5 percent plus or minus 5 nW, 850/1300/1310/1550 nm, 9/125 to 50/125 um). Linearity versus wavelength tables belong on the E5970A specification page.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.