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FIBER OPTIC TEST EQUIPMENT

Optical Average Power Meter

Model 8152A/81520A/81521B

- Two optical inputs
- Optical heads individually calibrated from 450 to 1700nm
- Multi- and single-mode
- 1% typical linearity



HP 8152A

The HP 8152A Optical Average Power Meter and its optical heads provide the accuracy and versatility for absolute and relative power measurements in a fiber optic test environment. Applications range from output power measurement of active optical components, or loss/attenuation measurement of passive optical components, to ratio measurement of power splitters.

Individually calibrated optical heads ensure highly precise measurement results over the entire wavelength range from 450 to 1700nm. After entering the operating wavelength, the appropriate sensitivity correction factor will automatically be taken into account to ensure the correct measurement value is displayed.

The combination of 2 independent optical inputs, the capability to perform ratio measurements, plus an HP 81000AS/BS Optical Power Splitter provides a fast, easy solution to determine the power ratio of an optical splitter or eliminating the instabilities of an optical source.

All functions can be set manually via front panel controls, or programmed via HP-IB for complete remote control. The HP 8152A is therefore an ideal tool for departments such as R&D, production and incoming evaluation.

HP 8152A/81520A/81521B Specifications

	81520A	81521B
Wavelength Range	450-1020nm	900-1700nm
Measurement Range	+10 to −100dBm	+3 to −80dBm
Resolution	0.01dB, 0.1pW	0.01dB, 10pW
Absolute Accuracy	±4%	±5%
Linearity (typ.)	±0.05dB (1%)	±0.05dB (1%)
Sensor Element	cooled Si PIN diode	cooled Ge PIN diode
Sensor Diameter	5mm	5mm
Bandwidth (typ.)	700Hz	700Hz

General

HP-IB capability
Interface function: SH1,AH1,T6,L4,SR1,RL1,PP0,DC1,DT1,C0
Recalibration period: 1 year
Warm-up time: 15 minutes
Environmental
Storage temperature: −40°C to +75°C
Operating temperature: 0°C to +55°C
Humidity: <95% R.H. from 0°C to +40°C
Power: 100/120/220/240Vrms, +5%, −10%, 90VA max., 48-400Hz
Weight: HP 8152A: net 4.3kg (9.5lbs), shipping 8.6kg (19lbs)
HP 81520A/21B: net 0.45kg (1lbs), shipping 1kg (2.2lbs)
Size: HP 8152A: 89mm(H) x 212.3mm(W) x 345mm(D) (3.5" x 8.36" x 13.6")
HP 81520A/21B: 37.7 diameter, 140mm length (1.5" x 5.5")

Ordering Information

HP 8152A Optical Average Power Meter
HP 81520A Optical Head 450 to 1020nm
HP 81521B Optical Head 900 to 1700nm
Opt 907: Front handle kit (HP P/N 5061-9688)
Opt 908: Rack flange kit (HP P/N 5061-9672)
Opt 916: Additional operating manual
P/N 5061-9701: Bail handle kit

Note: The HP 8152A cannot be used without an optical head, appropriate connector adapter and optical lens. For additional information, see "Fiber Optic Test Accessories" on page 307.

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