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Find the *Keysight / Agilent 8152A* at our website: ***Click HERE***

# LIGHTWAVE TEST EQUIPMENT

## Optical Average Power Meter

### Model 8152A/81520A/81521B/81522A

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



HP-IB SYSTEMS

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 lightwave 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 levels at same or different wavelengths.

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 insertion loss and attenuation of optical components while eliminating the effect of optical source instabilities.

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.

Due to its excellent traceability accuracy offered over the entire wavelength range, the HP 8152A can also be used as a secondary standard in your metrology lab.

### HP 8152A/81520A/81521B/81522A Specifications

| | 81520A | 81521B | 81522A |
|---|---|---|---|
| Wavelength Range | 450-1020nm | 900-1700nm | 1000-1550nm |
| Measurement Range | +10 to -100dBm | +3 to -80dBm | -3dBm to -100dBm |
| Resolution | 0.01dB, 0.1pW | 0.01dB, 10pW | 0.01dB, 0.1pW |
| Absolute Accuracy | ±4% | ±3.5% | ±5% |
| Linearity (typ.) | ±0.05dB (1%) | ±0.05dB (1%) | ±0.05dB (1%) |
| Sensor Element | cooled Si PIN diode | cooled Ge PIN diode | cooled InGaAs PIN diode |
| Sensor Diameter | 5mm | 5mm | 500µm |
| Bandwidth (typ.) | 700Hz | 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/22A:** 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/22A:** 37.7 diameter, 140mm length (1.5" x 5.5")

### Ordering Information

| | Price |
|---|---|
| **HP 8152A** Optical Average Power Meter | $3450 |
| **Opt. 907:** Front handle kit | $50 ☎ |
| **Opt. 908:** Rack flange kit | $51 ☎ |
| **Opt. 916:** Additional operating manual | $40 |
| **Opt. H02** Head Rack Mount Kit | $440 |
| **Opt. W30** Extended Repair Service. See page 725. | $85 |
| **HP 81520A** Optical Head 450 to 1020nm | $1550 |
| **HP 81521B** Optical Head 900 to 1700nm | $2300 |
| **HP 81522A** Optical Head 1000 to 1650nm[1] | $3800 |

Note: The HP 8152A cannot be used without an optical head, appropriate connector adapter and optical lens. For additional information, see "Lightwave Test Accessories" on page 309.

1) The exchangeable connector interfaces for Diamond® HMS-10/HP, FC/PC, DIN 47256 and ST connectors are available as additional accessories, see page 309.

☎ Fast-Ship product—see page 734.

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