

LIGHTWAVE MULTIMETER & ACCESSORIES

Lightwave Multimeter/Accessories (cont'd)

HP 8153A, Accessories

Ordering Information

HP 8153A Lightwave Multimeter Mainframe

Power Sensor Modules¹

HP 81530A Si, +3 to -100 dBm, 450 to 1020 nm

HP 81531A InGaAs, +3 to -90 dBm, 800 to 1700 nm

HP 81532A InGaAs, +3 to -110 dBm, 800 to 1700 nm

HP 81536A InGaAs, +3 to -70 dBm, 800 to 1700 nm

Optical Heads²

HP 81533B Optical Head Interface Module³

HP 81520A Optical Head, Si, +10 to -100 dBm, 450 to 1020 nm

HP 81521B Optical Head, Ge, +3 to -80 dBm, 900 to 1700 nm

HP 81524A Optical Head, InGaAs, +3 to -90 dBm, 800 to 1650 nm

HP 81525A Optical Head, InGaAs, +27 to -70 dBm, 800 to 1650 nm

Laser-Source Modules¹

HP 81551MM 850 nm, Multimode

HP 81552SM 1310 nm, Single-Mode

HP 81553SM 1550 nm, Single-Mode

HP 81554SM 1310/1550 nm, Single-Mode

LED-Source Modules¹

HP 81541MM 850 nm, 50 μ m Multimode Fiber Output

HP 81542MM 1300 nm, 50 μ m Multimode Fiber Output

HP 81542MM Opt 001 62.5 μ m Fiber instead of 50 μ m fiber output

Return Loss Module⁴ and Accessories

HP 81534A Return Loss Module

HP 81102AC Patchcord HP/HRL, HP/HRL

HP 81102BC Patchcord HP/HRL, Bare Fiber

HP 81102DC Patchcord HP/HRL, Radial VFO/DF

HP 81102PC Patchcord HP/HRL, FC/APC

HP 81102SC Patchcord HP/HRL, Diamond HRL-10

HP 81109AC Patchcord HP/HRL, Diamond

HMS-10/HP

HP 81000UM Universal Through Adapter

HP 81000BR Reference Reflector

¹One connector interface (HP 81000xl) required per module.

²For required lenses and adapters, see *Lightwave Test and Measurement Catalog*.

³Required to connect the optical head to the mainframe.

⁴Two connector interfaces (HP 81000xl) required per module.

Accessories

Optical Power Splitter for HP 81521B

The optical power splitter, HP 81010BS accepts single-mode fibers only and offers high return loss for physical-contact connectors. Depending on connector type, the return loss is up to 40 dB. Split ratio is approximately 10:1.

High-Performance Bare-Fiber Adapters for Optical Heads

The HP 81000BA for fibers with 125 μ m cladding diameter and the HP 81000CA for fibers with 140 μ m cladding diameter are capable of interfacing fiber pigtailed to the 81520A/81521B/81524A/81525A optical heads with typically 0.02 dB repeatability. The sophisticated design makes them very easy to use and ensures not only high accuracy but also high throughput in serial testing.

Attenuating Lens Adapter for Direct Chip Measurements

With the HP 81230FL mounted on an HP 81521B or HP 81524A optical head, the output power of LED or laser chips up to 200 mW can be measured precisely, before the pigtail is attached. Anti-reflection coating on all optical surfaces guarantees minimum back-reflections. The maximum acceptable numerical aperture is NA=0.5 in the wavelength range from 1200 nm to 1650 nm.

Connector Interfaces for Both Easy Cleaning and Easy Adaptation

User-exchangeable connector interfaces permit easy cleaning of the instrument's front end connector, and also allow the use of different connector types with the same instrument. They are available for Diamond HMS-10, FC/PC, D4, SMA, SC, ST, DIN, and Biconic.

Depolarizing Adapters for Optical Heads

The HP 81000DF is a detachable adapter for the HP 81521B, HP 81524A, and HP 81525A. It reduces the polarization sensitivity to less than 0.006 dB p-p in parallel beam applications with bare fibers or straight output connectors.

A Variety of Other Accessories Help Solve Your Measurement Problems

Patch cords and adapters enable users to interface virtually every connector type to the instruments. Filters and filter holders extend the measurement range to higher power levels. For more detailed information about accessories, please see the *Lightwave Test and Measurement Catalog*.

Key Literature

Lightwave Test and Measurement Catalog, p/n 5962-6832E.

Ordering Information

Connector Interfaces

HP 81000AI Diamond HMS-10/HP

HP 81000FI FC/PC

HP 81000GI D4

HP 81000JI SMA (lensed interface only)

HP 81000KI SC

HP 81000SI DIN 47256

HP 81000VI ST

HP 81000WI Biconic