How to use a light source and a power meter

AI Overview

A light source power meter measures optical power by pairing a calibrated light source with a power meter, requiring proper setup, zero calibration, and reference setting for accurate readings.Equipment OverviewA typical Light Source and Power Meter (LSPM) set includes a stabilized light source (LED or laser), an optical power meter, test reference cords (TRCs), mating adapters, and connector cleaning supplies . The light source emits a known power at specific wavelengths (e.g., 850, 1310, 1490, 1550 nm), while the power meter measures the received power in dBm or watts . Some meters also feature auto shut-off, zero set functions, and non-volatile memory to retain settings .Setup and ConnectionInspect and Clean Connectors: Use a visual inspection scope and cleaning supplies to ensure all fiber connectors are free of dust or damage, as dirty ferrules can invalidate measurements .Connect Test Reference Cords: Attach TRCs between the light source and the power meter using appropriate mating adapters (LC-LC, SC-SC, ST, or FC) to match the fiber type .Power On Devices: Turn on both the light source and the power meter. Allow the system to stabilize for about 60 seconds before taking readings .Select Wavelength: Choose the wavelength on both the light source and the power meter to match the fiber under test .Calibration and Reference SettingZero Calibration: Cover the detector in a dark environment and press the zero key to remove background light influence .Set Reference Level: Connect the light source to the power meter via a TRC and press the "set ref" or "0 dB" button on the meter. This establishes a baseline for measuring insertion loss .Measurement ProcedureConnect to Fiber Under Test: Attach the launch cable from the light source to one end of the fiber and the receive cable to the other end, ensuring fiber types match .Read Power: Observe the power meter reading aft...

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Light source and power meters

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How to use optical light source and power meter?

Do you have ever think about how to utilize optical light sources and power meters? These are very noteworthy, intriguing tools! We will take a closer look at them and discuss how to

How to Use Optical Light Source and Power Meter | FS

This video introduces how to operate the optical power meter (goo.gl/iPDhEZ) and optical light source (goo.gl/CNvq27), and shows how to test ...

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