Which small optical power meter is recommended



Overview

Discover how to choose the right fiber optic power meter for your needs. Learn to measure the power of optical signals in fiber optic cables with precision.

Key Takeaways

The Micro OWL 2 and the OZ Optics POM-400 are among the smallest optical power meters available, designed for handheld or pocket-sized use.

Micro OW

L 2The Micro OWL 2 is a highly compact optical power meter with a small handheld case made from high-impact plastic. It offers 0. 15 dB accuracy, a backlit graphic LCD, and an 18-key keypad for easy data entry.

It can operate for over 100 hours on a standard 9V battery and includes features like a built-in Link Wizard and storage for up to 1000 measured data points. Its combination of size, accuracy, and features makes it one of the smallest professional-grade optical power meters available.

O

Z Optics POM-400The POM-400 from OZ Optics is a pocket-sized optical power meter designed for field applications. It supports a wide dynamic range from +3 dBm to -60 dBm and can measure multiple standard wavelengths. Its ultra-compact size, low power consumption, and user-friendly keypad make it highly portable, suitable for quick measurements in the field.

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The device accommodates standard screw-in connectors like FC, SC, and ST, enhancing its versatility.

General Considerations

Small optical power meters typically use photodiode sensors (Silicon, Germanium, or InGaAs) for high sensitivity and compact design. These meters are often handheld or pocket-sized, unlike traditional bench-top meters, which are larger and designed for laboratory use. While compact meters may have slightly lower maximum power ranges compared to larger thermal meters, they are ideal for telecommunications, fiber optic installation, and field testing due to their portability and ease of use.

In summary, for the smallest optical power meters, the Micro OWL 2 and OZ Optics POM-400 are excellent examples, offering a balance of compact size, accuracy, and practical features for professional optical measurements.

Article Content

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How to Choose the Right Optical Power Meter?

To select the right optical power meter for a user''s specific application, you should focus on the following points.

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