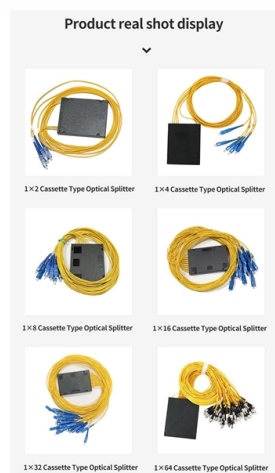


XinCe APM300 Optical Power Meter for Fiber Optics



Overview

Santec offers a comprehensive range of Optical Power Meters designed to meet diverse testing requirements in fiber optic applications.

Key Takeaways

The XinCe APM300 is a handheld optical power meter designed for accurate measurement of optical power in fiber optic networks, supporting multiple wavelengths and suitable for field testing.

The XinCe APM300 is a portable optical power meter (OPM) used to measure the power output of fiber optic signals and assess the performance of fiber links. It is commonly employed in installation, commissioning, and maintenance of fiber networks, including FTTx, LAN/WAN, and PON systems. Like other OPMs, it uses a photodiode sensor to convert optical signals into electrical current, providing precise readings of optical power in dBm or mW units.

Key Features

- **Wavelength Support:** Typically supports standard fiber optic wavelengths such as 850 nm and 1300 nm for multimode fibers, and 1310 nm and 1550 nm for single-mode fibers, allowing accurate testing across different network types.
- **Measurement Range:** Designed to measure a wide range of optical power levels, suitable for both low-power PON signals and higher-power network links.

- **Portability:** Handheld and lightweight, making it ideal for field technicians performing on-site testing and troubleshooting .
- **Display and Interface:** Equipped with an LCD screen to show real-time power readings, often with options for peak, average, or relative measurements.
- **Compatibility:** Can be paired with optical light sources to measure insertion loss of fiber links, including single-mode and multimode cables .
- **Durability:** Rugged design suitable for field environments, often with long battery life for extended testing sessions.

Applications

- **Fiber Network Installation:** Verifying signal strength and ensuring proper link performance during deployment.
- **Maintenance and Troubleshooting:** Detecting power loss, connector issues, or fiber degradation in existing networks.
- **PON Testing:** Measuring downstream and upstream power levels in GPON, EPON, or XGS-PON networks.
- **Certification:** Used alongside light sources to certify fiber links according to industry standards.

Practical Considerations

- Always match the OPM wavelength to the service wavelength for accurate readings.
- Use with compatible optical light sources to measure insertion loss.
- Regular calibration ensures measurement accuracy over time.
- The APM300 is suitable for both single-fiber and multi-fiber testing, depending on connector adapters used. In summary, the XinCe APM300 is a versatile, handheld optical power meter that provides reliable measurements for fiber optic network testing, making it a practical tool for technicians in both field and lab environments .

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