



WSP 100

Multi-Wavelength Selective Power Meter

The WSP 100 is a portable Multi-Wavelength Selective Power Meter. It's designed for installation, maintenance, and troubleshooting of Long-Haul and Metro loop applications. With the supplied PC executable software, the WSP 100 can operate in either Local or Remote mode. It automatically analyzes each channel and measures the center wavelength/frequency, power level, and optical signal to noise ratio (OSNR). The test results are displayed in either tabular or graph format. Up to 40 tests can be saved to internal memory.

Switching the WSP 100 to OPM mode allows the instrument to perform standard power meter functions. The instrument may be used to take the insertion loss and optical power measurements.

features

- Long-Haul and Metro Applications
- Field Portable, Battery Operated
- Local or Remote Mode Testing
- PC Executable Software for Windows®/NT
- Optical Power Meter Mode

WSP 100 measures:

- Center Wavelength to 50 GHz Spacing
- Signal-to-Noise Ratio
- Peak Power
- Gain Tilt

ordering information

The WSP 100 package includes: WSP 100 instrument, AC adapter/charger, PC software and manual, adapter cap, serial cable, carry case.



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specifications

WSP Mode

Wavelength measurement:	
Test Range	85 nm (Typical 1525 - 1610 nm)
Absolute Accuracy ¹	± 0.05 nm (typical < ± 0.03 nm) for 1525 - 1575 nm ± 0.08 nm (typical < ± 0.05 nm) for 1575 - 1610 nm
Wavelength Resolution	0.015 nm
Power measurement:	
Power measurement range per channel	- 50 to + 2 dBm
Accuracy ²	± 0.5 dB
Resolution	0.01 dB
PDL	± 0.1 dB
OSNR ³	> 35 dB at 0.8 nm (at 100 GHz) > 30 dB at 0.4 nm (at 50 GHz) > 25 dB at 0.2 nm (at 25 GHz)

OPM Mode

Detector Type	Filtered InGaAs
Calibrated Wavelength	850, 980, 1310, 1480, 1550, 1625 nm
Measurement Range	- 45 to + 26 dBm
Accuracy ⁴	± 0.25 dB
Resolution	0.01 dB

- Notes:
- 1 — At room temperature
 - 2 — With the input of -30.00 dBm at 1570.00 nm
 - 3 — For a single channel
 - 4 — Accuracy measured at 25 °C and -10.00 dBm per N.I.S.T. Standards.

General Specifications

Operating Voltage	AC: 100 to 240 V/ 1 A, 50 to 60 Hz DC: 18 V/ 1 A
Battery Life	~6 hrs with 14.8 V 1800 mAH Lithium Ion
Remote Control Interface	RS232 Serial Port
Optical Connector	FC or SC (WSP Port) Universal Connector (OPM Port)
Display	5.8" LCD (320 x 240)
Dimensions (H x W x D)	8 x 9 x 3 in (20.4 x 22.9 x 7.6 cm)
Weight	4.2 lb (1.95 kg)