

M100

Optical Power Meter

The M100 Optical Power Meter is a low cost, high value fiber optic power meter offering premium performance and features normally found in "high end" meters. Standard features include 4 digit, .01dB resolution display, Store Reference with individual values for each wavelength, non-volatile storage of reference values and setup conditions, extended battery life, low battery detection, Auto shutoff/ power save mode, temperature compensated circuitry, 70dB of measurement, and .25dB accuracy. Additionally, the M100 comes standard with features normally associated with bench top instruments, including optional Analog Output port, User defined and calibrated wavelength, and Universal 2.5mm detector port. The M100 can optionally be equipped with a dual Level feature, giving it a full 90dB of measurement range. With its rich feature set, the M100 is applicable in all the traditional data and telecommunications acceptance testing and maintenance



functions, and is equally useful in testing distributive tree type CATV networks employing high power Laser's, or as a laboratory bench-top tool.

SPECIFICATIONS:

Optical Characteristics:	TA = 23° C ± 5° C	Humidity (non-condensing)	5 - 95% relative humidity
Detector Characteristic:		Mechanical Specifications:	
Type	Germanium photo-diode	Size	7.0" x 3.3" x 1.3"
Active Diameter	2mm	Weight	1/2 lb
Spectral Response	780 nm - 1800nm	Power Requirements:	
NEP (typical)	.4 pW/√Hz	Battery	9 volt alkaline* (standard)
Measurement Range:		Battery life (typical)	75 hours (alkaline)
Standard	+5 dBm to -65 dBm		
with dual level option	+25 dBm to -65dBm		
Resolution	.01 dB		
Accuracy:			
Standard	±.25 dB (+5 dBm to -55 dBm)		
	±.5 dB (-55 dBm to -65 dBm)		
with dual level option	±.25 dB (+25 dBm to -55 dBm)		
	±.5 dB (-55 dBm to -65 dBm)		
Calibrated Wavelengths	850nm, 1310nm, 1550nm	Interfaces:	
Environmental Characteristics:		Optical	Universal 2.5mm detector Port**
Temperature Range:			** Compatible with ST, FC, SC, DIN, E2000 connector styles.
Operating	-10° C to +50° C	Analog Output (optional)	0 to 1vdc, scaled .1v/10dB
Storage	-55° C to +65° C		