

AF-OM100A Series Power Meters

Product: OM100A Series	Date: July:2009	Rev: 04
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Description

The AF-OM100A series is the latest addition to the AFS product line. This OM100 series upgrade includes a number of new enhancements with such features as the addition of Watts readout and an extra digit of dB resolution going from 0.1dB to 0.01dB which is selectable by the end user. This upgraded OM100A line also sees the introduction of the **OM150A** for FTTx applications with calibrated wavelength at 850/1300/1310/1490/1550 and 1625nm. The **OM150A** will be the only meter that you will ever need! The **OM150A** utilizes a filtered InGaAs photodiode that is potted in a aluminum detector housing for high optical power heat dispersion



All of the Advanced Fiber Solutions power meters are the perfect tools for measuring optical power, loss (attenuation) and optical return loss in any system, it is just a matter of picking the right instrument for the application. All meters are calibrated at industry standard wavelengths (NIST traceable) for both single-mode and multimode transmitters. All detectors are potted in a threaded housing for versatility allowing the user to interchange adapters for numerous connector types. The OM100A series meters are a low cost series of power meters for the technician who wants a high performance meter. All power meters now come with protective rubber boot.

Highlighted Feature: All our power meters features an on screen testing procedure guide field for quick reference making testing a breeze!

On Screen Testing Procedure Guides	
<p>One Way Loss Test</p>	<p>Two way loss testing guide</p>

Kit Highlights and Key Features	
◦ Compact light weight carrying case	◦ 0.1dB/0.01dB Resolution (Selectable)
◦ 850nm, 1300nm, 1310nm, 1490nm, 1550nm & 1625nm	◦ Meter calibration certificate included
◦ dBm/W (absolute) + dB (relative) measurement	◦ Display back light
◦ Graphical display with testing guide	◦ Auto power off
◦ Zero reference with dBm value displayed	◦ N.I.S.T. traceable
◦ dBm and Watts displayed to together	◦ Single mode and multimode applications
◦ Optional: 2mm and 3mm Ger detector available for larger core applications	

Technical Specifications

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Optical Specification	AF-OM120A	AF-OM130A	AF-OM150A
Calibrated Wavelengths	850nm,1300nm, 1310nm, 1490nm & 1550nm	1310nm, 1490nm & 1550nm	850nm, 1300nm, 1310nm, 1490nm, 1550nm & 1625nm
Measurement Range	+3dBm to -55dBm	+20dBm to -40dBm	+20dBm to -50dBm
Detector Type	Germanium (Ge)	Germanium High Power	InGaAs High Power
Applications	Single-mode, Multimode, Outside plant and Premise	Single-mode, Long wavelengths, CATV	Single-mode, Long wavelengths, CATV
All Units			
Accuracy (@25°C, -20.0dBm)	±0.25 dB		
Measurement Units	dBm/W (absolute) – dB (relative)		
Resolution	0.1 dB/0.01dB (Selectable)		
Controls	5 Soft Buttons		
Buttons	On/Off, Backlight, λ, dB-dBm/W, Zero Reference		
Power	2AA Batteries or AC Power Converter		
Low Battery Indicator	Yes		
Display	Graphical LCD with Backlight		
Adaptor Options	ST, SC, FC, 2.5mm Universal & LC (other adapters also available)		
Auto-Shutdown	Yes		
Protective Rubber Boot	Yes		
Testing Reference Guide	Yes		
Enclosure Size	Compact Handheld (L-4.94"/W-2.75"/H-1.2")		

Temperature Specifications	
Operation Temperature	-10°C to +50°C (45% Hum, non condensing)
Storage Temperature	-20°C to +60°C (75% Hum, non condensing)

Ordering Information

Model Number	Calibration(nm)	Detector Type	Range @1310 (dBm)
AF-OM120A	850nm, 1300nm,1310nm, 1490nm & 1550nm	Germanium (1mm)	+3 to -55 dBm
AF-OM130A	1310nm, 1490nm & 1550nm	Germanium (High Power)	+20 to -40dBm
AF-OM150A	850nm, 1300nm, 1310nm, 1490nm, 1550nm & 1625nm	InGaAs (high power)	+20 to -40dBm
*AF-OM120A-2	850nm , 1300nm ,1310nm, 1490nm & 1550nm	Germanium (2mm)	+3 to -55 dBm
*AF-OM120A-3	850nm, 1300nm ,1310nm, 1490nm & 1550nm	Germanium (3mm)	+3 to -55 dBm

***Special order version of the AF-OM120A for larger core applications**