

# AF-OLK7 Series Fiber Optic Test kit

Product: OLK7 Series

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Rev: 02

## Description

The AF-OLK7 series Triple wave test kits are the complete solution necessary for the installer to test and trouble shoot fiber optic systems. The AF-OLK7 Series comes in two versions, the AF-OLK7FTTH and AF-OLK73. Both The AF-OLK7FTTH and the AF-OLK73 test kits are designed to allow testing of all parameters of fiber optic networks, including output power levels from the fiber, coupled source power and attenuation loss in a cable.

The AF-OLK7FTTH combines the AF-OM150A optical power meter (850/1300/1310/1490/1550/1625 nm) and the AF-OS530FTTH (1310/1490/1550 nm) triple wavelength source.

The AF-OLK73-SM combines the AF-OM150A optical power meter (850/1300/1310/1490/1550/1625 nm) and the AF-OS540 (1310/1550/1625 nm) triple wavelength source.



The AF-OLK7 series test kits are designed to test FTTH, passive optical networks (PON) and single mode applications.

All kits include a carrying case, one connector adapter, cleaning wipes, power adjustment tool and instructional manual.

### Kit Highlights and Key Features

◦ Compact light weight carrying case	◦ On screen testing procedure guides
◦ 1310nm, 1490nm, 1550nm & 1625nm applications	◦ 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
◦ Filtered InGaAs Detectors for high powered applications	◦ Triple wavelength sources
◦ Single Mode FTTH and PON applications	◦ Certify SM links per TIA/EIA standards
◦ dBm and Watts displayed simultaneously	◦ 0.1dB/0.01dB Resolution (Selectable)

## Product Description

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### AF-OM150A Power Meter Description

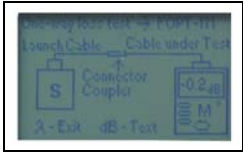
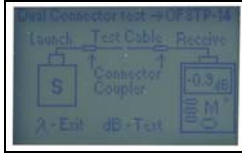
All of the Advanced Fiber Solutions power meters are the perfect tools for measuring optical power, loss (attenuation) and optical return loss in any system, it is just a matter of picking the right instrument for the application. All meters are calibrated at industry standard wavelengths (NIST traceable) for both single-mode and multimode transmitters. All detectors are potted in a threaded housing for versatility and allows the user to interchange adapters for numerous connector types.

The recently upgraded OM100A line sees the introduction of the **OM150A** replacing the OM130 for FTTx applications with calibrated wavelength at 850/1300/1310/1490/1550 and 1625nm. The OM150A will probably 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.



AF-OM150A Power Meter

**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>

### AF-OS500 Series Light Source Description

Advanced Fiber Solutions is pleased to introduce a new line of fiber optic sources. The OS500 series has expanded from the OS400 series offering with the addition of two new triple wavelength laser sources the AF-OS530FTTH and the AF-OS540. We have also added standard features such as modulation tones on all 500 series models along with auto power off and a soft touch key pad.



OS500 Series Source

# Technical Specifications AF-OM150A Power Meter

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Optical Specification	AF-OM150A
Calibrated Wavelengths	850nm, 1300nm, 1310nm, 1490nm, 1550nm & 1625nm
Measurement Range	+20dBm to -50dBm
Detector Type	Filtered InGaAs
Applications	Outside Plant and Single Mode
Accuracy (@25°C, -10.0dBm)	±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)

# Technical Specifications OS500 Series Triple Sources

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Optical Specification	AF-OS530FTTH			AF-OS540		
Wavelengths ( $\lambda$ )	1310nm	1490nm	1550nm	1310nm	1550nm	1625nm
Spectral Width	5nm	3nm	5nm	5nm	5nm	2nm
Emitter Type	Class 1 (FDA 21 CFR 1040.10 and 1040.11)					
Output Power	-5 dBm (typical) into 9/125 fiber					
Applications	FTTH, PONS and Single Mode			Outside plant and Single Mode		
Modulated Frequencies	270hz, 1Khz, 2Khz					
Stability per hour (after 5 min warm up)	Less than 0.1dB (Typical)					
Connector Options	ST, FC or SC					
Power	2 x AA batteries, optical AC adapter					
Protective Rubber Boot	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

Kit Part Number	Meter	Source	Application
AF-OLK7FTTH	AF-OM150A	AF-OS530FTTH	FTTH and Single Mode
AF-OLK73-SM	AF-OM150A	AF-OS540	Outside Plant and Single Mode
Kit Content			
Meter, Source, AD-100 (2.5mm adapter), Batteries, Alco wipes, Trim tool, Manual, Meter calibration cert.			

Note: Advanced Fiber Solutions, Inc offers a full line of connector adapters along with accessory options such as our new 200 power optical inspection microscope. Please contact a distributor for more information.