

Product: OLK5N ^{NextGen}	Date: Nov:2013	Rev: 01
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Description

The AF-OLK5N^{NextGen} series test kits are the latest addition to the AFS product family. This inexpensive optical test kit is the complete solution necessary for the installer to test and trouble shoot both multimode and single mode fiber optic systems. These 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-OLK51N-MM is a test kit designed for multimode applications while the AF-OLK51N-SM test kit is designed to test single-mode fiber optic cable. The AF-OLK52N-Q is designed for both multimode and single-mode applications. The AF-OLK5N^{NextGen} series test kits come with the AF-OM120N-I series power meter. The meter is accompanied with the AF-OS420N 850/1300nm LED light source for multimode applications or/and AF-OS430N 1310/1550nm laser source for single-mode applications (**AF-OS430N comes equipped with interchangeable ST, FC and SC connectors adapters**).

All kits include the AF-OM120N-I power meter which incorporates such features as a enlarged screen for optimal viewing, extended battery life (100+ hours), tone detection (270Hz, 330Hz, 1KHz & 2KHz), dBm\dB\Watts read out and an auto off feature (optional 10 or 30 min). The unit utilizes an InGaAs detector and its calibrated wavelengths include 850/1300/1310/1490/1550 & 1625nm. All wavelengths have a **Set Reference** feature which stores selected wavelengths absolute value to memory.

This is one of the most cost effective and easy to use insertion loss test kits on the market today.

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
◦ Extended Graphical display for optimal viewing	◦ Auto power off (10 or 30 min option)
◦ Zero reference with dBm value displayed	◦ N.I.S.T. traceable
◦ dBm and Watts displayed simultaneously	◦ Single mode and multimode applications
◦ Set Reference Feature for all calibrated wavelengths	◦ Dynamic range ~+6 to -60dBm

Unit Specification	
Calibrated Wavelengths	850nm, 1300nm, 1310nm, 1490nm, 1550nm & 1625nm
Measurement Range	~+6dBm to -60dBm
Detector Type	1mm InGaAs
Accuracy (@25°C, -20.0dBm)	±0.25 dB
Measurement Units	dBm (absolute)\Watts\dB (relative)
Resolution	0.1 or 0.01 dB
Controls	5 Soft Buttons
Buttons	On/Off, Backlight, λ, dB-dBm, Zero Reference
Power	1x9V 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 OS400N Series Light Sources

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Optical Specification	AF-OS420N	AF-OS430N
Wavelengths (λ)	850nm & 1300nm	1310nm & 1550nm
Wavelength Peak	850nm \pm 30nm 1300nm \pm 30nm	1310nm \pm 10nm 1550nm \pm 10nm
Output Type	LED	Laser
Applications	Premises, campus cabling networks with multimode	Single mode, outside plant and long haul applications
Output Power	>-20.0dBm @ 850 & 1300 Into 62.5 micron fiber *	>-5.0dBm @ 1310 & 1550 Into single mode fiber *
Stability per hour (after 5 min warm up)	Less than 0.1 dB	Less than 0.1 dB
Connector Style	ST 1300nm ST 850nm	ST/FC & SC (Interchangeable)
Modulated Frequencies	N/A	2Khz
Battery	1x9V	1x9V
Emitter Type	Class 1 LED Product	Class 1 Laser Product
All Units		
Protective Rubber Boot	Yes	
Enclosure Size	Compact Handheld (L-4.94"/W-2.75"/H-1.2")	

*Side adjustable trim pots for output power level adjustment

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-OLK51N-MM	AF-OM120N-I	AF-OS420N	Multimode
AF-OLK51N-SM	AF-OM120N-I	AF-OS430N	Single Mode
AF-OLK52N-Q	AF-OM120N-I	AF-OS430N AF-OS420N	Single Mode, Multimode
Model Part Number	Meter	Source	Application
.AF-OM120N-I	850/1300/1310/1490 1550&1625nm	-----	Single Mode, Multimode
AF-OS420N	-----	850/1300nm LED source	Multimode
AF-OS430N	-----	1310/1550nm Laser source	Single Mode

Kits include: Meter, Source(s), AD-100 (2.5mm adapter), Batteries, Alco wipes, Manual, Meter calibration cert.