AF-OS400 Series Fiber Optic Sources

Product: OS400 Series Date: May:2009 Rev: 02

Description

Advanced Fiber Solutions offer a complete line of sources for any testing application. The OS400 series units are cost-effective, rugged, handheld LED and laser light sources designed for performing insertion loss measurements on fiber optic links when used with an optical power meter. The LED output is stabilized to ensure accurate test results per current TIA/EIA requirements. Whether testing outside plant or premise an OS400 series optical source is the perfect tool when combined with an OM100 or OM200 series optical power meter. On each source all wavelengths are individually adjustable, with the exception of the AF-OS405, allowing the user to use less battery power when high optical output power is not necessary, or to turn up the power to test long runs. This also makes it possible for the AF-OS420 LED source to test single-mode cables up to 5km at 1300nm (AF-OS430 recommended when testing single mode systems).



These units are easy to operate with only a wavelength/ power switch on the LED sources AF-OS417MD and AF-OS420, which selects optical wavelengths or disables unit. The AF-OS405 visual fault locator operates with one front panel switch that allows the user to select between a pulsed or CW output. The AF-OS430 laser source has two front panel switches. The top switch which allows the user to select which wavelength to operate at, and the lower switch which enables the user to select between either the CW or the 2Khz output for the transmitting wavelength.

Kit Highlights and Key Features							
0	Rugged, handheld, lightweight	0	Cost-effective, easy to use				
0	Certify single-mode and multimode links per TIA/EIA standards	0	Low battery indicator				
0	CW or 2 kHz modulated tone on AF-OS430 laser source	0	Adjustable output				
0	850nm and 1300 nm LED (multimode) light sources (660 nm available)						

Optical Specification	AF-OS405	AF-OS417-MD	AF-OS420	AF-OS420- VSCEL	AF-OS430		
Applications	Visual Fault Loactor	Plastic, large core + multimode	Premise cable networks with multimode fiber	Gigabit Ethernet	Outside plant single mode		
Wavelength	635nm	660nm/850nm	850nm/1300nm	850nm/1300nm	1300nm/1550nm		
Output Type	Laser	LED	LED	Laser/LED	Laser		
Modulated Frequencies	1hz/CW	CW	CW	CW	2khz/CW		
Stability Per Hour	Less than 0.5dB	Less than 0.5dB	Less than 0.05dB	Less than 0.1dB	Less than 0.05dB		
Power Output	1mW max	>-20dBm @ 850	>-20dBm	>-5dBm @850 >-20dBm@1300	>-8dBm		
Connector Style	ST/FC/SC	Modular @665 ST @850	ST	ST/SC/FC @850 ST @1300	ST/SC/FC		
All Units							
Contro	ls	Front panel slide switches					
Power	r	2AA Batteries or AC Power Converter					
Low Battery I	ndicator	Yes					
Protective Rub	ober 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

Model Number	Output Wavelength(nm)	Output Type	Output Power
AF-OS405-(ST/FC or SC)*	635nm	Laser	1mW max
AF-OS417-MD	660nm/850nm	LED	>-20dBm @ 850nm
AF-OS420	850nm/1300nm	LED	>-20dBm
AF-OS420-VSCEL	850nm/1300nm	Laser/LED	>-5dBm/-20dBm
AF-OS430-(ST/FC or SC)*	850nm/1300nm	Laser	>-8dBm

* User selectable outputs which are factory fixed – available options → ST, FC or SC.