



Features

- EF Complaint light sources and test kits per TIA 526-14-B and IEC 61280-4-1 Ed. 2.0
- EF Compliant by design no additional equipment required
- Full 5-year warranty
- Wave ID for error free testing of multiple wavelengths simultaneously
- Test cords included

Designed for outside plant environments

- Splash resistant controls
- Withstands one-meter drop test
- Controls designed for easy operation with gloves
- Field swappable connector adapters provide flexibility and access for cleaning optical ports at time of test

Wave ID - Increase test speed with less errors

- Simultaneous multi-wavelength testing cuts loss measurement time in half or more
- Automatic wavelength identification eliminates setup errors and simplifies coordination between users at opposite ends of fiber

Applications

- Multimode testing requiring EF Compliant equipment
- Passive Optical Network (PON) testing
- Certify multimode and single-mode links to TIA/EIA standards
- Certification report generation with TRM® 2.0 software









Specifications a

OPTICAL SPECIFICATIONS - POWER METERS							
MODEL	OPM5-2D AND OPM4-2D MODELS						
Calibrated Wavelengths	850, 1300, 1310, 1490, 1550 nm						
Detector Type			German	ium (Ge)			
Measurement Range			+6 to -	60 dBm			
Tone Detect Range	+6 to -50 dBm +6 to -45 dBm for 850 nm						
Wavelength ID Range	+6 to -50 dBm +6 to -45 dBm for 850 nm						
Accuracy	±0.25 dB						
Resolution			0.0	1 dB			
Measurement Units	dB, dBm, μW						
OPTICAL SPECIFICATI	ONS: OLS4 AND	OLS1-DUAL MOD	ELS				
MODEL		DLS4 ptical Port)	OLS4 (SM Optical Port)		OLS1-DUAL (MM Optical Port)		
Wavelength	850 ±30 nm	1300 +30/-20 nm	1310 ±20 nm	1550 ±20 nm	850 ±30 nm	1300 +30/-20 nm	
Spectral Width	45 nm (typ)	120 nm (typ)	5 nm (max)	5 nm (max)	45 nm (typ)	120 nm (typ)	
Emitter Type	LED		Laser		LED		
Safety Class	Class I FDA 21 CFR 1040.10 and 1040.11, IEC 60825-1: 2007-03						
Output Power	≥ -21 dBm, 5	60 μm multimode	ltimode 0 dBm, 9 µm single-mode		≥ -21 dBm, 50 µm multimode		
Output Stability	±0.1 dB over 8 hours (after 5 minutes warm-up)		±0.05 dB over 1 hour (after 15 minutes warm-up) ±0.1 dB over 8 hours (after 15 minutes warm-up)		±0.1 dB over 8 hours (after 5 minutes warm-up)		
Tone Output		N/A	A 2 kHz N/A			N/A	
GENERAL SPECIFICAT	IONS: ALL OPN	AND OLS MODELS	5				
Available Adapters	SC FC, ST, LC						
Power	2 AA batteries						
Operating Temperature	-10 °C to 50 °C, 90 % RH (non-condensing)						
Storage Temperature	-30 °C to 60 °C, 90 % RH (non-condensing)						
Size (H x W x D)	14.0 x 8.1 x 3.8 cm (5.5 x 3.2 x 1.5 in)						
Weight	0.29 kg (0.65 lb)						

Notes:

a. All specifications valid at 25°C unless otherwise specified.



Ordering Information

Encircled Flux (EF) Compliant Light Sources

Since adoption by the IEC, Encircled Flux (EF) multimode launch requirements are increasingly specified into fiber loss testing job requirements. Meeting EF specification requires technicians use EF qualified test sets. It is important to note IEC 61280-1-4 and TIA-568-14-B, specify EF multimode launch conditions at the end of an EF qualified Reference Grade Test Cord (RGTC) — not directly out source test port. Thus, EF compliance requires an EF Light Source and RGTC used together.

AFL offers multimode light sources with designed in Encircled Flux (EF) optics supplied with EF qualified RGTC.

- OLS1-DUAL EF is supplied with one multimode RGTC
- OLS4 EF is supplied with one multimode RGTC and one standard 9/125 single-mode test cord.

WAVELENGTHS	TEST CORDS INCLUDED	AFL NO.
MM 850/1300 nm	(1) RGTC, 50 µm, MM, 2-meter	OLS1-DUAL-EF
MM 850/1300 nm	(1) RGTC, 50 µm, MM, 2-meter	OLS4-EF
SM 1310/1550 nm	(1) 9/125 μm, SM, 2-meter	

Encircled Flux (EF) Compliant Test Kits

AFL EF compliant loss test kits include:

Multimode Test Ports: (SMLP and MLP kits)

- Light Source with designed in Encircled Flux (EF) optics paired with one EF qualified RGTC.
- 50/125 μm receive test cord

Single-mode Test Ports (SMLP kits)

• Light Source with two 9/125 μm test cords (launch / receive)

POWER METER	LIGHT SOURCE	FIBER TYPE	WAVELENGTH (nm)	DYNAMIC RANGE (dB)	AVAILABLE CONNECTORS		INCLUDED 2-METER TEST CORDS		AFL NO.
					SOURCE PORT	TEST CORD	LAUNCH (µm)	RECEIVE (μm)	
OPM5-2D	OLS4-EF	MM SM	850, 1300 1310, 1550	39 @ 850/1300 nm 60 @ 1310/1550 nm	FC, SC	FC, SC, ST, LC	MM: RGTC, 50/125 SM: 9/125	MM: 50/125 SM: 9/125	SMLP5-5-EF
OPM4-2D	OLS4-EF	MM SM	850, 1300 1310, 1550	39 @ 850/1300 nm 60 @ 1310/1550 nm	FC, SC	FC, SC, ST, LC	MM: RGTC, 50/125 SM: 9/125	MM: 50/125 SM: 9/125	SMLP4-4-EF
OPM5-2D	OLS1-DL-EF	MM	850, 1300	39 @ 850/1300 nm	FC, SC	FC, SC, ST, LC	MM: RGTC, 50/125	MM 50/125	MLP5-2-EF
OPM4-2D	OLS1-DL-EF	MM	850, 1300	39 @ 850/1300 nm	FC, SC	FC, SC, ST, LC	MM: RGTC, 50/125	MM 50/125	MLP4-2-EF



Accessories

DESCRIPTION	AFL NO.				
LIGHT SOURCE CONNECTOR ADAPTERS					
FC connector adapter	2900-50-0002MR				
SC connector adapter	2900-50-0003MR				
ST connector adapter	2900-50-0004MR				
LC connector adapter	2900-50-0006MR				
POWER METER CONNECTOR ADAPTERS					
FC connector adapter	8800-00-0200				
SC connector adapter	8800-00-0209				
ST connector adapter	8800-00-0202				
LC connector adapter	8800-00-0225				
REFERENCE GRADE LAUNCH CORDS (RGLC) (50/125 µm – 2 meters)					
FC to FC	8700-04-0001MR				
FC to SC	8700-04-0002MR				
FC to LC	8700-04-0003MR				
FC to ST	8700-04-0004MR				
SC to FC	8700-04-0005MR				
SC to SC	8700-04-0006MR				
SC to LC	8700-04-0007MR				
SC to ST	8700-04-0008MR				
MULTIMODE TEST CORDS (50/125 μm – 2 meters)					
FC/FC	8700-00-0093				
SC/ST	8700-00-0064				
SC/SC	8700-00-0065				
LC/LC	8700-00-0082				

DESCRIPTION	AFL NO.				
SINGLE-MODE TEST CORDS (9/125 µm – 2 meters)					
FC/FC	8700-00-0005				
FC/ST	8700-00-0016				
ST/ST	8700-00-0017				
SC/SC	8700-00-0018				
FC/SC	8700-00-0021				
SC/ST	8700-00-0022				
SC/LC	8700-00-0046				
FC/LC	8700-00-0071				
LC/LC	8700-00-0097				
MATING ADAPTERS (Bulkheads)					
FC/FC	8400-00-0004MR				
SC/SC	8400-00-0045MR				
ST/ST	8400-00-0020				
LC/LC	8400-00-0075				
CLEANING SUPPLIES					
One-Click Cleaner SC/ST/FC	8500-05-0001MZ				
One-Click Cleaner LC	8500-05-0002MZ				
Cletop –SB Cassette Cleaner	8500-10-0016MZ				
Cletop –SB Refill Cartridge	8500-10-00017MZ				





Available at www.AFLglobal.com/Test/Contacts