



AFL SLP 5 Optical Loss Test Kit (1310 & 1550nm))

The SLP5 triple wavelength single-mode test kits are available in two models, SLP5-FTTH and SLP5-7. The SLP5-FTTH and SLP5-7 model combine the OPM5-4D optical power meter and either OLS7-FTTH (1310/1490/1550 nm) or OLS7-3 (1310/1550/1625 nm) laser source respectively.

The OLS7-FTTH and OLS7-3 feature a triple wavelength laser output from a single port and are easy to operate. Each wavelength may be transmitted individually at CW or with user selectable modulated Tone. Also, each wavelength may be transmitted with Wave ID. The OLS7-FTTH and OLS7-3 output ports are equipped with UCI based removable adapters to allow the output connectors to be inspected and cleaned.

The OPM5-4D is a full-featured, hand-held optical power meter designed for measuring optical power in premise, telco, or broadband networks and for performing insertion loss measurements on multimode or single-mode fiber optic links. The standard Wave ID feature (when used with AFL OLS series light sources) automatically detects and sets the wavelength(s), preventing setup and measurement errors. It significantly increases efficiency and reduces technician errors—and saves testing time—by eliminating the need to test each wavelength individually. The OPM5-4D stores optical references for each calibrated wavelength and offers multiple test tone detection for fiber identification.

Data Storage of Test Results

The OPM5-4D File Management system allows technicians to organize test results into multiple files and transfer stored results via USB to a PC for analyzing, generating reports, and printing. The supplied powerful PC Analysis and Reporting Tool (TRM® - Test Results Management software) allows users to apply industry standards based rules to test results and create comprehensive certification reports. Users can generate network Pass/Fail results demonstrating compliance to industry standards and illustrate headroom. TRM is a Windows® compatible software. The SLP5 test kits are fully N.I.S.T. traceable.



Features

- Hand-held, rugged, lightweight
- Wave ID (auto identification and switching)
- Triple, dual, or single Wave ID, CW, Tone
- 270 Hz, 330 Hz, 1 kHz, 2 kHz Tone
- Power measurements in dBm or μ W; insertion loss in dB
- Reference power level storage
- Large LCD with backlight (OPM5-4D)
- File management system organizes stored test data (OPM5-4D)
- Storage capability > 500 fibers (OPM5-4D)
- USB port and Windows® compatible software for download of stored data (OPM5-4D)
- Low battery indicator
- Long battery life with 2 AA alkaline, optional AC adapter
- Cost-effective, easy-to-use
- N.I.S.T traceable

Applications

- Passive Optical Networks (PON) testing
- Certify SM links per TIA/EIA standards
- Fiber identification prior to splicing



FOC Part # SLP 5-6

SLP5 Test Loss Test Kit with PC Reporting Tool – TRM®



Powerful Pair

The SLP5 loss test kit and TRM® Test Results Management software are a powerful pair.

- Increases efficiency
- Reduces technician errors
- Simple to operate with minimal training required
- Provides customized professional reports

Target Markets

Anyone testing fiber links who requires report generation applications include:

- Data networks
- Telecommunications providers
- CATV
- Industrial

WaveID Increases Efficiency and Reduces Errors

- Enables users to test two wavelengths simultaneously
 - Significantly reduces test time by eliminating the need to test each wavelength individually
- Automatically detects and sets received wavelengths
 - Eliminates loss measurement errors by automatically matching OPM to transmitted wavelength

Straightforward Results Storage and Easy File Management in the Field

- Simple-to-use interface allows for easy separation of results into files
- Keep cable/job results separated for fast customer report generation
- Access to files and results allows for quick and easy retest of fibers

Upload test data files to PC via USB to utilize powerful data management and reporting tool – TRM®

File Naming and Data Management Editor

- Manage job information (Ends, Cable ID, Comments, and Operators) to meet documentation specifications in reports
- Create bi-directional results
- Combine results from multiple OPMs to create a complete job report
- Automatic backup of data

Create Certification Results to Industry Standards (TIA/ISO/EN and applications)

- Apply standards-based rules to loss results
- Generate Pass/Fail information for each fiber
- Demonstrate compliance to industry standards

Customized Reports

- Create professional personalized reports with company logos
- Reports meet accepted industry documentation standards
- Save common report options for quick generation of future reports
- Recall previously stored settings to save time generating reports for repeat customers
- Create certification reports showing fiber Pass/Fail results based on customer/consultant specifications, Industry Standard, and Industry Applications
- Show headroom values for the primary rule (typically the industry standard)
- Use PC analysis to verify if previously measured fibers (tested with AFL loss test equipment) meet loss requirements of Standards and Rules

Superior Customer Support

- Dedicated customer service, technical support and field sales available to support customers
- Knowledgeable timely technical support and customer service

The screenshot displays the TRM software interface with several key components:

- Job Information Table:**

Job:	Job1
Route:	Loc1_Loc2
Cable:	File1
File Info:	
Parameters:	Value
Ends:	
Connector:	
Comment:	
Operator One:	
Operator Two:	
Main Model:	OPM53
Main Software Rev:	9.7
Main Serial Number:	DEFAULT.CAL
- Fiber Loss Data Tables:**

Fiber	1310nm A-to-Z	1550nm A-to-Z
1	2.63 dB	2.07 dB
2	2.39 dB	2.62 dB
3	2.42 dB	2.62 dB
4	2.96 dB	2.79 dB
5	2.36 dB	2.52 dB
6	2.52 dB	2.75 dB
7	2.52 dB	2.74 dB
8	2.43 dB	2.63 dB
9	2.52 dB	2.74 dB
10	2.71 dB	2.98 dB
11	2.05 dB	2.91 dB
12	2.36 dB	2.54 dB
13	2.00 dB	2.05 dB
- Certification Report (Manchester Univ):**

MANCHESTER UNIV

Call Date: 07/27/2009 3:02:00 PM Call Date: 07/27/2009 3:02:00 PM

Number of Comments: 0 Loss Limit: 0.00 dB @ 1000m @ 1310nm

Number of Fibers: 0 Length Limit: 0.00 Miles

ISO 11801 (International Standard) all cables 55 or 62.5 µm fiber.

Date of Test	Time	Fiber	Loss (dB)	Length (m)	Pass/Fail	Headroom (dB)
07/27/2009	3:01 PM	1	2.63	1000	Pass	0.37
07/27/2009	3:01 PM	2	2.39	1000	Pass	0.23
07/27/2009	3:01 PM	3	2.42	1000	Pass	0.20
07/27/2009	3:01 PM	4	2.96	1000	Pass	0.23
07/27/2009	3:01 PM	5	2.36	1000	Pass	0.16
07/27/2009	3:01 PM	6	2.52	1000	Pass	0.23
07/27/2009	3:01 PM	7	2.52	1000	Pass	0.22
07/27/2009	3:01 PM	8	2.43	1000	Pass	0.20
07/27/2009	3:01 PM	9	2.52	1000	Pass	0.22
07/27/2009	3:01 PM	10	2.71	1000	Pass	0.27
07/27/2009	3:01 PM	11	2.05	1000	Pass	0.86
07/27/2009	3:01 PM	12	2.36	1000	Pass	0.18
07/27/2009	3:01 PM	13	2.00	1000	Pass	0.05

SLP5 Triple Wave Test Kits with Wave ID, Set Reference, Data Storage

OPM5-4D Specifications ^a

OPTICAL	OPM5-4D
Calibrated Wavelengths	850, 980, 1310, 1490, 1550, 1625 nm
Detector Type	Filtered InGaAs
Measurement Range	+26 to -50 dBm
Tone Detect Range	+6 to -30 dBm +6 to -25 dBm for 850 nm
Wavelength ID Range	+6 to -30 dBm +6 to -25 dBm for 850 nm
Accuracy ^b	±0.25 dB
Resolution	0.01 dB
Measurement Units	dB, dBm, µW
General	
Power	2 AA batteries, optional AC adapter
Battery Life	300 hours
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	0.26 kg (0.58 lb)

OLS7 Specifications ^a

OPTICAL	MODEL OLS7-FTTH			MODEL OLS7-3		
Wavelength (±20 nm)	1310	1490	1550	1310	1550	1625
Emitter Type	Laser, Class I FDA 21 CFR 1040.10 and 1040.11, IEC 60825-1: 2007-03					
Spectral Width	5 nm	3 nm	5 nm	5 nm	5 nm	2 nm
Output Power	-5 dBm (typical) into 9/125 fiber					
Output Stability ^c	±0.05 dB over 1 hour ±0.1 dB over 8 hours					
Tone Output	270 Hz, 330 Hz, 1 kHz, 2 kHz					
GENERAL						
MODELS OLS7-FTTH AND OLS7-3						
Available Adapters	SC, FC, ST, LC					
Power	2 AA batteries, optional AC adapter					
Battery Life	Typical 72 hours (with one laser active), minimum 40 hours					
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	0.3 kg (0.66 lb)					

Notes:

- a. All specifications valid at 25°C unless otherwise specified.
- b. Accuracy measured at 25°C and -10 dBm per N.I.S.T. standards.
- c. After 15-minute warm-up, after 30-second typical.

Ordering Information

Test jumpers and connector adapters are required for operation (purchased separately). Test jumpers with a variety of connector styles and fiber types and adapter caps for most common connectors may be purchased from AFL.

INCLUDES	AFL NO.
OLS7-3 optical light source, OPM5-4D optical power meter, AA batteries, protective rubber boots, adapter cap, USB cable, Windows® compatible software, and carry case.	SLP5-7
OLS7-FTTH optical light source, OPM5-4D optical power meter, AA batteries, protective rubber boots, adapter cap, USB cable, Windows® compatible software, and carry case.	SLP5-FTTH

Calibration Plans

AFL recommends annual calibrations on AFL Test and Inspection products. Prepaid Cal plans offer two annual calibrations at a discounted price, a convenient calibration expiration email service, express calibration services and access to the AFL product knowledge base. Cal Plus plans offer the same services as the Cal plans with the addition of a two year extended warranty (three years total coverage).

MODEL	2 YR CAL PLAN	
	AFL NO.	
SLP5-6	CAL2-00-SLP5-6	CAL2-01-SLP5-6
SLP5-7	CAL2-00-SLP5-7	CAL2-01-SLP5-7
SLP5-FTTH	CAL2-00-SLP5-FTTH	CAL2-01-SLP5-FTTH