

## Test and Inspection

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



#### 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  $\mu$ 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

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 NOYES 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.

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## Test and Inspection

### **NOYES®** 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

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## Test and Inspection

### NOYES®

## 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)

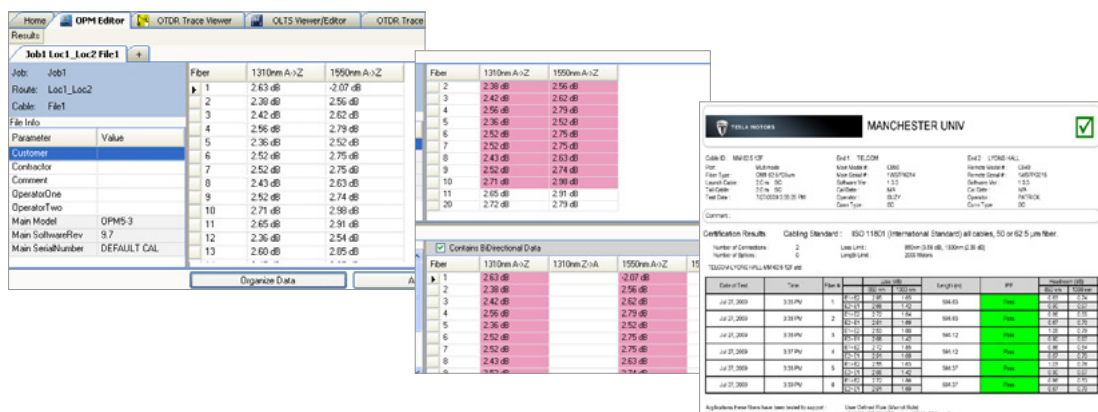
- Apply standards-based rules to loss results
- Generate Pass/Fail information for each fiber
- Demonstrate compliance to industry standards

### 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 NOYES 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 Panel:** Shows details for Job1, Route: Loc1\_Loc2, Cable: Fib1, and various parameters like File Info, Parameter, and Customer.
- Fiber Loss Data Tables:** Multiple tables showing loss results for fibers 1 through 13, categorized by 1310nm A-to-Z and 1550nm A-to-Z. Loss values range from -2.07 dB to -2.74 dB.
- Certification Report:** A detailed report for Manchester University, including job ID (WAVE5-0P), fiber type (OM3 63.5/125um), and certification results. It specifies ISO 11801 standards and shows a 'Pass' status for all fibers.
- Summary Tables:** Tables showing the number of certifications (2) and loss limits (800m @ 0.36 dB, 100m @ 0.36 dB).

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

#### OPM5-4D Specifications <sup>a</sup>

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 <sup>b</sup>	±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 <sup>a</sup>

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 <sup>c</sup>	±0.05 dB over 1 hour ±0.1 dB over 8 hours	
Tone Output	270 Hz, 330 Hz, 1 kHz, 2 kHz	
<b>GENERAL</b>		
<b>MODELS OLS7-FTTH AND OLS7-3</b>		
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:

- All specifications valid at 25°C unless otherwise specified.
- Accuracy measured at 25°C and -10 dBm per N.I.S.T. standards.
- 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 NOYES 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 NOYES 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	2 YR CAL PLUS PLAN
	AFL NO.	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



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