

# FlowScout® MPO OLTS Test Set

## Features

- Industry's first native 16-fiber Tier 1 OLTS tester
- Single test set for multi-fiber and duplex fiber testing
- Extremely fast and accurate pass/fail analysis
- Certification to industry standards and custom test limits
- Large color touchscreen with icon-driven user interface
- Single reporting platform - AFL's FlexReporter™ Test Results Manager

## Applications

- Tier I Certification of Hyperscale data centers
- Enterprise LAN and data center fiber networks
- Multi-tenant data centers



AFL's FlowScout MPO OLTS is the industry's first true 16-fiber Tier I OLTS tester that supports testing of all multi-fiber AND duplex connectors, enabling much faster test time.

**Extremely fast testing:** The FlowScout MPO OLTS test set provides significant time savings cutting testing phase in half. It streamlines the workflow with fewer steps and enables 16-fiber testing in just 6 seconds per port in a single pass.

**Highly accurate results and simple operation:** The test set design is based on a precise and extremely accurate testing technology to ensure correct verification and validation of links. A simple to navigate icon-based user interface allows technicians to quickly set-up, test, validate, and document fiber networks. The FlowScout MPO OLTS measures and automatically evaluates pass/fail loss against industry or user-set limits. The large color touchscreen displays detected power levels with color-coded pass/fail indications.

**All-in-One solution:** The FlowScout MPO OLTS is a pair of hand-held testers designed to support native multi-fiber as well as duplex connector testing using a single test set. Utilizing the integrated duplex tester, it offers the same workflow for testing duplex links. No need for a separate equipment or learning new workflow for duplex connector testing. One tester operates as an optical light source and the matching tester operates as an optical power meter, offering the same workflow for testing native multi-fiber as well as duplex connections.

**Single reporting platform for multi-fiber and duplex documentation:** Measured pass/fail limits and status may be stored in the internal memory for download via Bluetooth or USB. Using AFL's free FlexApp on iOS or Android mobile device, test results may be wirelessly transferred to AFL's FlexReporter™ cloud for subsequent analysis, editing, and reports generation with FlexReports PC software.



# FlowScout® MPO OLTS Test Set

## Specifications <sup>a,b</sup>

Optical		
Power Meter	MPO Power Meter	Duplex Power Meter
Optical Interface	Shuttered MPO-16 pinned	Interchangeable connector adapter (LC standard)
Detector Type	InGaAs	InGaAs
Calibrated Wavelengths	1310 nm, 1550 nm	1310 nm, 1550 nm
Power Measurement Range	-50 to +3 dBm	-60 to +3 dBm
Accuracy	±5% @ -10 dBm	± 5% @ -10 dBm
Linearity	±0.15 dB	± 0.15 dB
Measurement Units	dB, dBm	dB, dBm
Display Resolution	0.01 dB	0.01 dB
Storage Capacity	10,000 results	10,000 results
Length Measurement Range	Up to 25 km under certain conditions	Up to 25 km under certain conditions
Warm Up Time	0 minutes	0 minutes
Length Measurement Accuracy	±1 m ±1% of length	±1 m ±1% of length
Calibration Period	3 years	3 years
Light Source	MPO Light Source	Duplex Light Source
Optical Interface	Shuttered MPO-16 pinned	Interchangeable connector adapter (SC standard)
Source Type	Laser	Laser
Safety Class	Class I	Class I
Wavelengths	1310 ±20 nm, 1550 ±20 nm	1310 ±20 nm, 1550 ± 20 nm
Spectral Width	<5 nm	<5 nm
Output Power	-9 dBm typical @ 1310 nm, -4 dBm typical @ 1550 nm	-4 dBm typical
Stability	±0.1 dB over 1 hour (after 15 minutes warm-up) ±0.15 dB over 8 hours (after 15 minutes warm-up)	±0.1 dB over 1 hour (after 15 minutes warm-up) ±0.15 dB over 8 hours (after 15 minutes warm-up)
Warm-Up time	15 minutes	15 minutes
OLTS System	MPO OLTS System	Duplex OLTS System
Test time	6 seconds (16 fibers)	2 seconds
General		
Size	22 x 11 x 5.5 cm (8.5 x 4.5 x 2.2 in)	
Weight	0.9 kg (2.0 lb)	
Screen	5" capacitive color touchscreen	
Interface	Bluetooth 5.1 BLE	
Power and Data Transfer	USB-C	
Operating Temperature	-10 °C to +50 °C, 0 to 90 % RH (non-condensing)	
Storage Temperature	-20 °C to +60 °C, 0 to 90 % RH (non-condensing)	
Power	Rechargeable Li-Ion or AC power adapter	
Battery Life	>8 hours continuous testing	

### Notes:

- All specifications valid at 23°C ±2°C unless otherwise specified.
- Accuracy measured at 25 °C and -10 dBm per N.I.S.T. standards.
- Under reference conditions at calibrated wavelengths, -5 to +45 °C