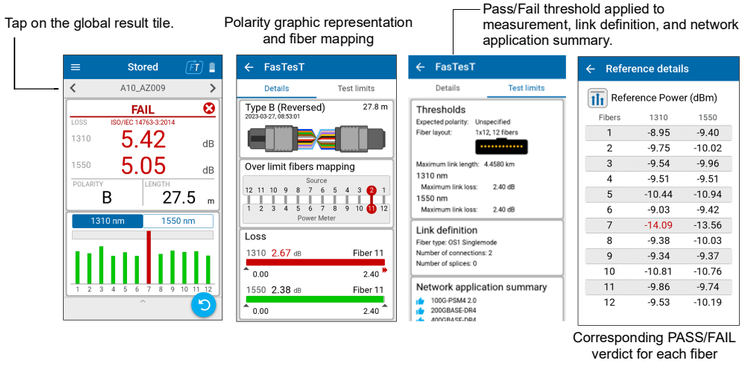
FasTesT™ Loss Measurement

Analyzing Test Results

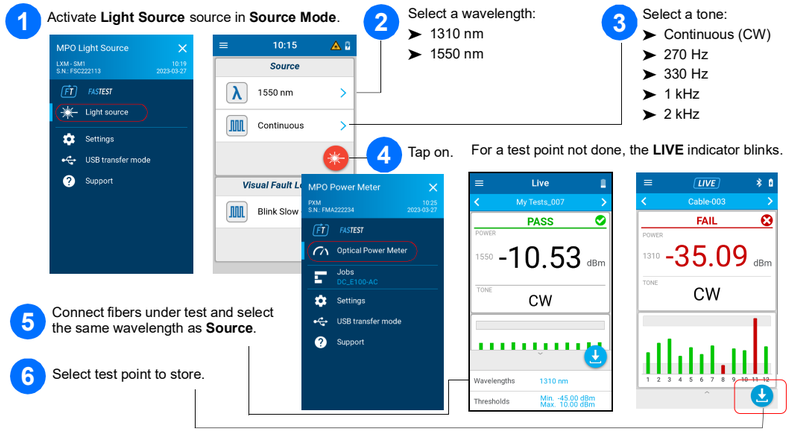


Fibers	1310	1550
1	-8.95	-9.40
2	-9.75	-10.02
3	-9.54	-9.96
4	-9.51	-9.51
5	-10.44	-10.94
6	-9.03	-9.42
7	-14.09	-13.56
8	-9.38	-10.03
9	-9.34	-9.37
10	-10.81	-10.76
11	-9.86	-9.74
12	-9.53	-10.19

Performing an OPM Power Measurement

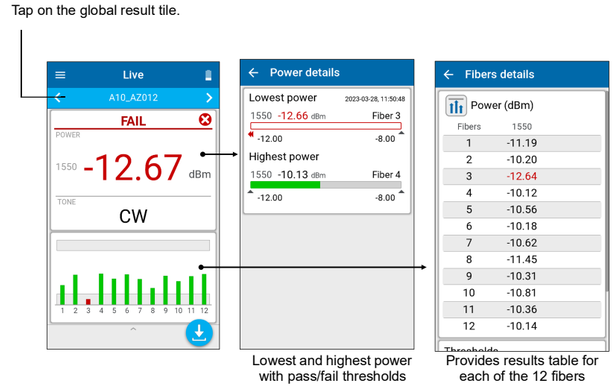
For testing with a live signal from a transmitter or with LXM source. (Only 1 wavelength)

To test with an LXM source signal:



OPM Power Measurement

Analyzing Results



Fibers	1550
1	-11.19
2	-10.20
3	-12.64
4	-10.12
5	-10.56
6	-10.18
7	-10.62
8	-11.45
9	-10.31
10	-10.81
11	-10.36
12	-10.14

Extracting Test Results to a PC

Connect the PXM to a PC to transfer the results via USB to Windows PC. PXM test results can be opened in FastReporter 3.

Printed in Canada (2023-07)
Version: 2.0.0.1

EXFO

Quick Reference Guide

PXM/LXM

MPO Optical Loss Test Set (OLTS)

The LXM Light Source and PXM Power Meter test sets are an MPO native source and MPO 12 native power meter. As a fully featured Tier-1 certification solution, the LXM and PXM combo units test 12 fibers at 2 wavelengths in 1 second.

Connecting MPO Test Cords

Before connecting to the test units, clean the MPO cable using a mechanical cleaner.

Note: *EXFO strongly recommends that test units and test cord connectors be cleaned.*

MPO Adapters

Both LXM/PXM are pinned.

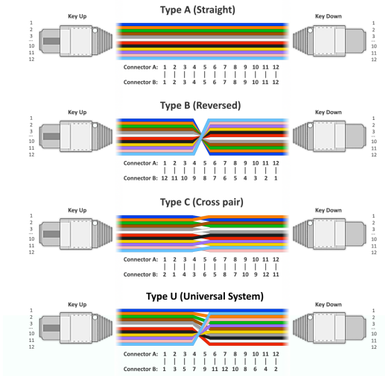
Note: *Never connect pinned connectors to test units.*

Reference Requirements:

- ➤ All test cords must be type A (Straight) polarity.
- ➤ All 12 fibers must be referenced.

Recommendation: Test cord lengths must be 2 to 10 meters and the same length.

Supported Polarities

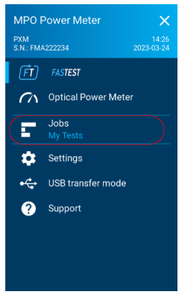


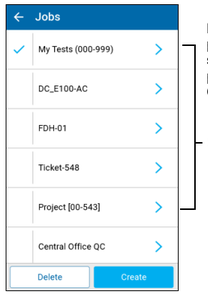
For more information, refer to the user guide.

EXFO

Selecting a Job/Creating a New One

From the main menu, tap **Job** to open the Job list.



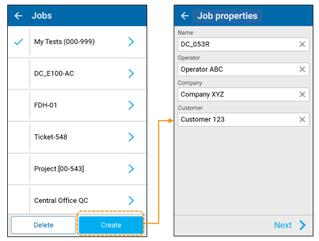


My Tests includes a predefined identification sequence of 1000 test points with identifiers OPM-000 to OPM-999.

Select a **Job** from the list.

To create a new job:

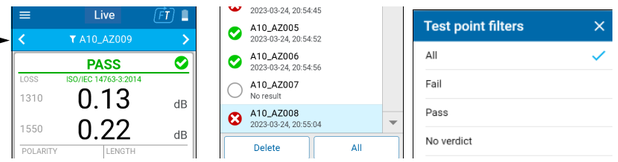
In the **Job properties** screen, enter a **Name** for the new job, or use the suggested default name which will consist of the prefix **PXM** followed by the current date. The number after the decimal point will increase by one every time a new job is created on the same date using the default job name.



Filtering Test Points

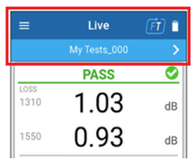
The navigation bar allows you to filter test points while navigating.

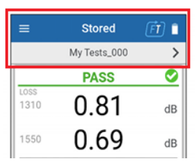
Tap on the navigation bar to open the browser page.



Test Not Done with Live Reading vs Test Done with Stored Test Result

When the test point has no test result or after tapping test again, the application title bar is **Live** and the navigation bar is blue.





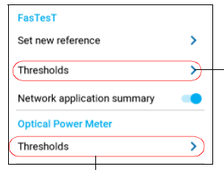
When the test point has a result, the application title bar is **Stored** and the navigation bar is gray.

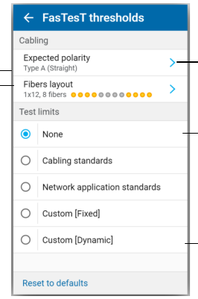
Setting Pass/Fail Thresholds

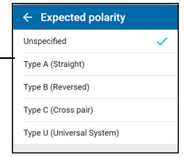
To set Thresholds for either FasTesT or Optical Power Meter:

1 From the main menu, select **Settings**, then **Thresholds**.

2 Select a threshold to set.





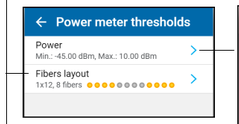


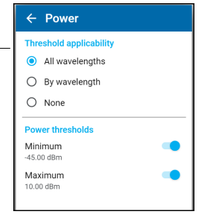
Set the **Expected polarity**.

Set the **Test limits** for link loss/length.

Note: *Link loss/length is not tested when **None** is selected.*

2

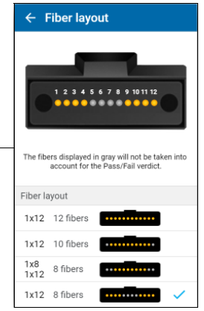




Select wavelength thresholds .

Enable/disable the Min/Max **Power thresholds** using the sliders.

MPO Layout Selection

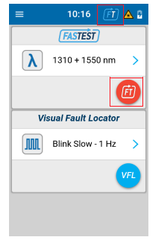


Performing a FasTesT™ Loss Measurement

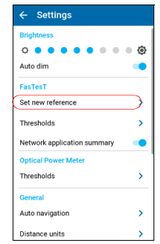
An LXM source is required.

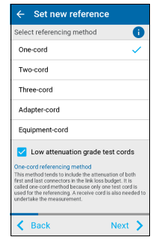
To perform tests:

1 Activate source in FasTesT mode and select wavelength(s) to test.

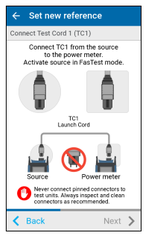


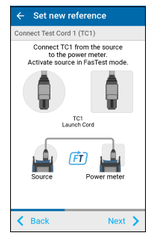
2 Take a reference with Power Meter from either Settings or bottom tray of Live measurement page.



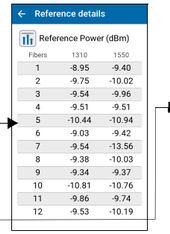


3 Connect reference test cords.





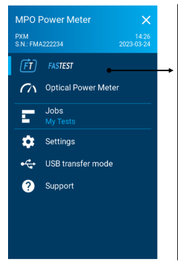
4 Take reference.



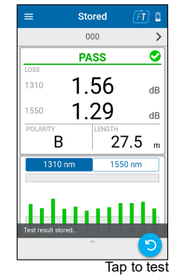
5 Ready to test.

PXM is ready

MPO Loss Measurement Example



Tap to store



Tap to test again

Test name

PASS/**FAIL** Global status

Highest **LOSS** wavelength

POLARITY
LENGTH

Select the graph wavelength

Selected wavelength loss graph of the 12 fibers with pass/fail thresholds