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JONARD TOOLS FLS-55 Multi-mode and Single-mode Fiber Optic Light Source



Specifications

Model	FLS-50
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<b>Power Meter</b>	FPM-50A
<b>Test Jumpers</b>	1-3 depending on the test setup

## POWER METER CALIBRATION STEPS

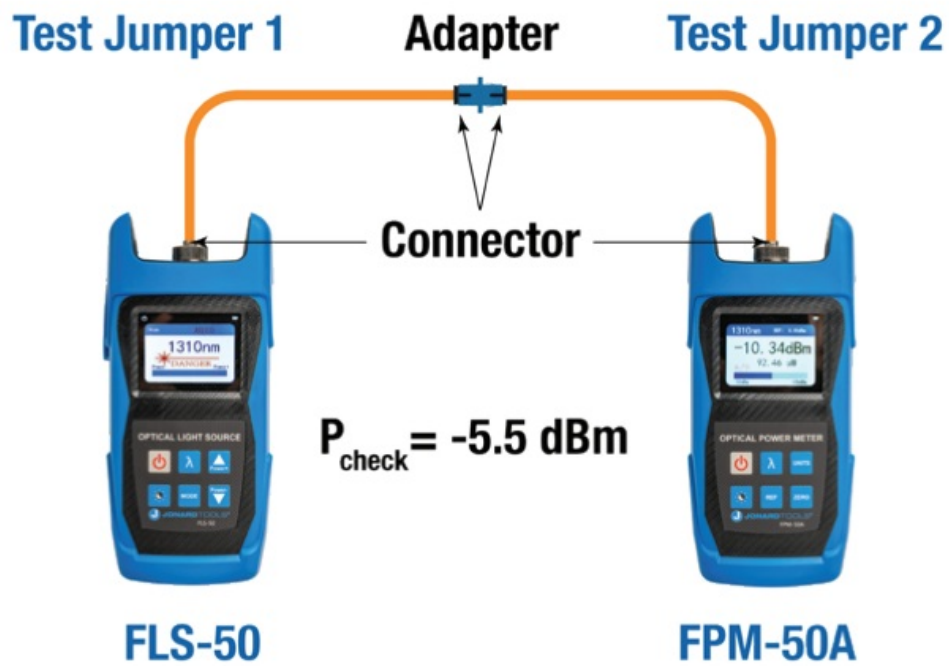
1. Select the proper connector interface type that the application requires.
2. Do not connect APC to Non-APC connectors at any point, as damage can occur to the interface of the unit, the connector of the optical cord or both.
3. Turn the unit on and let it warm up for 15 minutes to stabilize to prevent any wavelength/reference drifting.
4. Select dB if you want to measure loss or select dBm if you want to measure the output power of a transmitting device.
5. Clean and inspect all Connectors, repeat if needed before plugging the selected test cord into the unit's interface.
6. When measuring output power of a transmitting source, verify the unit is in the "dBm" mode and plug in the opposite end of the test cord into the input of the transmitting device that you want to measure, and review your results on the power meters screen.
7. When measuring system/link or insertion loss is being measured, verify the unit is in the dB mode.
8. When using this power meter in combination with a light source to perform optical loss testing you will need to calibrate the units. Based on the application, you will need 1-3 test cords. "See diagrams on back of card" Connect between 1-3 cords to the units, if using 2 or more cords you will need an adapter/coupler or bulkhead to connect the 2 test cords together in the middle. The power meter should be in the dB mode, press the dB key 1 time. If the power meter is still in the dBm mode, press the dB key 2 times.
9. You have now synced/calibrated the units together to ensure test results are accurate, which they will not be without performing the calibration process.

## Diagrams

## Reference Jumper #1



## Two Reference Cord Test Method



## Reference Cord Testing Methods



\*Note for multimode testing, the use of a mandrel wrap ring is recommended to use for the test cable plugged into the optical light source.

## FAQ

- What is the purpose of warming up the unit?

Warming up the unit for 15 minutes stabilizes it to prevent wavelength/reference drifting.


- **Why should APC not be connected to Non-APC connectors?**

Connecting APC to Non-APC connectors can cause damage to the unit's interface or the optical cord.

- **How do I know if the unit is in the correct mode?**

For measuring output power, ensure the unit is in “dBm” mode. For measuring loss, ensure it is in “dB” mode.

## Documents / Resources



**POWER METER CALIBRATION STEPS:**

1. Connect the power metering device to the calibration source.
2. Do not connect FLS-55 to the APC connector at any point, as damage can occur to the interface of the APC. The connector of the cable must be fully seated.
3. Turn the unit on and let it warm up for 15 minutes in isolation to prevent any atmospheric loading.
4. Select REF key and to measure loss at what offset if you want to measure the whole power at a following source.
5. Close and input of Connector, repeat it several times (during the second step the display will show 0.000000).
6. When measuring input power at a measuring source, with the unit on the display will show 0.000000 and the power will be measured in the unit of power metering device. For each FLS-55 response, and within your needs in the power metering device.
7. When the display shows 0.000000, the power loss is being measured, with the unit of the display.
8. When the display shows 0.000000, the power loss is being measured, with the unit of the display.
9. When the display shows 0.000000, the power loss is being measured, with the unit of the display.
10. The power metering device is being measured, with the unit of the display.

# JONARD TOOLS FLS-55 Multi-mode and Single-mode Fiber Optic Light Source [pdf] Instruction Manual

## FLS-55 Multi-mode and Single-mode Fiber Optic Light Source, FLS-55, Multi-mode and Single-mode Fiber Optic Light Source, Single-mode Fiber Optic Light Source, Fiber Optic Light Source, Light Source

## References

- User Manual

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