6. Maintenance:

6.1 If the Light Source is not used for a long time, the light output port must be protected with the dustproof cover.

6.2 When the Fiber Optic Light Source is used for a long period of time, the output port may get dirty, which results in the output power decreasing. If there is a noticeable loss in output power, the connector must be cleaned with a cotton swab and alcohol. If it cannot be cleaned, please send it to the manufacturer for a replacement.

6.3 If you are not planning to use the (FW-5) Light Source for a long period of time, remove the batteries to prevent leakage.

6.4 Do not take the Fiber Optic Light Source apart. If there are any other issues, please contact the manufacturer.

6.5 DO NOT look into the Light Source adapters directly while the light source is on. The laser output will damage your eyes.

7. Trouble-shooting:

No.	Problem	Measures
1	The output light is unstable or decreases rapidly while operation.	Replace the batteries.
2	Output power is fluctuating.	Try warming-up the device for 15 minutes, then use it.
3	The output port is dirty.	Clean the connector with a cotton swab and alcohol.

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INSTRUCTION MANUAL

FLS-50
FIBER OPTIC LIGHT SOURCE

1. Overview:

FLS-50 - Fiber Optic Light Source:

Provides two different wavelength outputs, 1310 nm or 1550 nm, at varying frequencies for checking the optimal loss of single mode fiber optic cables using our FPM-50 Fiber Optic Power Meter (or other power meters).

2. Technical Specifications:

SPECIFICATIONS	
Type	Fiber Optic Light Source
Operational Wavelengths	1310 nm/1550 nm
Emitter Type	LD
Typical Output Power	-7dBm
Spectral Width	10 nm
Output Stability	±0.05dB/15mins I ±0.1dB/ 8hours
Modulation Frequencies	CW, 270Hz, 1KHz, or 2KHz
Optical Connector	FC/SC/LC
Power Supply	Alkaline Battery (3 AA 1.5V batteries)
Battery Operating Time	45 hr
Operating Temperature	-10- +60°C
Storage Temperature	-2- +70°C
Dimensions	7" x 3-3/16" x 1-1/4" (17.78 cm x 8.10 cm x 3.18 cm)
Weight	0.902 lb (0.409 kg)

Recommendations

The FLS-50 Light Source is designed for optimal use with our FPM-50 Optical Power Meter for measuring optical loss on both single mode and multimode fiber cable. Note that the LC adapter may have up to 0.3 dB of signal loss.

3. What's Included:

Fiber Optic Light Source w/ installed SC Adapter 1
FC Adapter 1
LC Adapter 1
Protective Holster 1
AA 1.5V battery...3
Storage Bag...1

Diagram of the FLS-50

Keys and Functions:

(1) Wavelength Output Port: FC/SC/LC.
(2) Liquid Crystal Display: Displays wavelength and frequency of the light emitted.
(3) "ON/OFF" Key: Press to turn the Handheld Light Source Light On or Off.
(4) "Wave" key: For selecting the wavelength emitted.
(5) "Mode" key: Modulation control: CW light output and modulated light output can be selected by pushing "Mode" key. When modulated light output is selected, a dot appears on the screen.

5. Operation:

5.1 Press and hold the "ON/OFF" key for about one second to turn on the FLS-50 Light Source. The default wavelength is 1310nm and can be changed using the "MODE" key.

5.2 To use the Fiber Optic Light Source:
   1. Connection: Choose one of the connectors: FC, SC, or LC, and install it on the light source. The FC adapter comes preinstalled.
   2. Wavelength selection: Press "Wave" key for wavelength selection.
   3. Modulation: Press the "MODE" key, choose the "CW","270Hz","1KHz" or "2KHz" light output.
   4. When Done: Press "ON/OFF" key to turn off the FLS-50 Light Source.