

Model SSF-TKITE-300
OPTICAL POWER METER

Manual

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1. Overview

The SSF-FPM-300 optical power meter is a handheld optical power meter which can be used for absolute optical power measurements as well as for relative loss measurements on both SM and MM fibers. An Ø1.0mm photosensitive area photodiode is used to significantly improve stability and to provide accurate measurements. It features a rugged design, wide range of power measurement, high accuracy, and reference power level storage.

2. Features

- Wide dynamic measurement range (up to 80dB)
- Reference power level storage (Ref Setting)
- User self-calibration function
- Comfortable LCD display and backlit LCD display support low light operation.
- Power measurements in dBm or mw and insertion loss in dB
- 10 minute auto-off function can be activated or deactivated.
- AA alkaline batteries can last more than 140 hours, AC adaptor also available
- Low battery power indication

3. Specifications

MODEL	3211A	3211C
Wavelength(nm)	800~1700nm	
Detector Type	InGaAs	
Detector Size	Ø 1.0mm	
Measurement Range (dBm)	-70~+10	-50~+30
Uncertainty	±5%	
Calibrated Wavelength(nm)	850,1300,1310,1490,1550,1625	
Resolution(dB)	0.01	
Optical Connector	FC(interchangeable SC,ST) / as well as 2.5mm universal	
Power Supply	Alkaline Battery(3 AA 1.5V batteries); AC Adaptor(9V)	
Battery Operating Time	140 h with 1.5V Battery(3pcs)	
Operating Temperature(°C)	-10 ~ +60	
Storage Temperature(°C)	-25 ~ +70	
Relative Humidity	0 to 95% (non-condensing)	
Dimension(mm)	190X100X50	
Weight(g)	370	


4. Standard Accessories

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Function


5.1 Function Instructions




- (1)  Power Supply Switch: Press to turn unit on or off
Auto Shut-Off Selection: Quick press turns the auto shut-off function on or off. When auto shut-off is active, the unit will automatically shut off after ten minutes idle.
- (2) “ λ ” Wavelength Selection: Press this key to switch the wavelength and display it on the top left of the LCD screen.
- (3) “dBm/W”
Press this key to switch between the absolute measurement and relative measurement of the optical power.
- (4) “REF”
Press and hold this key for a few seconds to store the current power value as the reference value which will be displayed on the top left of the LCD screen.
Quickly press this key to enter the relative measurement mode. The reference value will be displayed on the top left of the LCD screen. It will compare the current power with the reference power and show the relative power value in dB.

5. Operation and Notes

6.1 Turn on/off the unit

Press  key to turn on. The LCD screen will display the following information:

- (1) When using the AC adapter, the AC adapter indicator will appear on the top left of the display.
- (2) The battery indicator is displayed on the top left of the screen and will be lit when using battery power. The capacity shown will decrease with the battery power. Replace the batteries as needed.
- (3) The “auto-off” icon is displayed on the bottom left of the screen. The auto-off function lights when active. The unit will automatically shut off when idle for ten minutes.。
- (4) The power value (dBm, W, dB) is displayed in the middle of the screen.
- (5) The reference power value (dBm) is displayed on the top right of the screen.
- (6) The working wavelength (nm) is displayed on the top left of the screen.

Press  to turn off the power meter.

6. Maintenance

- Clean the optical connector and adaptor regularly.
- Use the regulated optical connector for the test.
- Shut off the power and cover the dust-proof cap after use.
- Use only the power supply included with the unit.
- Take out the battery when it is not in operation for any extended period of time

7. Troubleshooting

Problems	Possible reasons	Solution
Faint display on the LCD screen	The battery power is low	Charge or replace the battery.
Unit fails to turn on	Low battery power or battery is inserted incorrectly	1. Replace the battery.
		2. Re-insert the battery
Optical power is not stable after the unit is restarted		Use after 5 minute warm-up.

8. Notice

- 9.1 Ensure the connector is clean before testing.
- 9.2 Do not plug in the power supply when using battery power.
- 9.3 Do not look into the laser beam when unit is on.
- 9.4 Charge batteries before using and do not charge in the unit.
- 9.5 Cover the dust-proof cap when it is not in operation.

9. Warranty and service

Caution: Do not attempt to repair as doing so will void warranty. 18 month warranty for this Optical Power Meter.

- 9.1 We warrant that this power meter will be free from defects in material and workmanship for 18 months. Should the device fail at any time during this warranty period, we will, at our sole discretion, replace, and repair or refund the purchase price of the product. The worth of the repair or replacement will not be higher than purchasing price of this unit.
- 9.2 If the problems occurred cannot be solved by the troubleshooting methods, please contact us or the local distributor directly.
- 9.3 This warranty is limited to defects in our production, workmanship or material; we will repair or replace the unit free of charge. This warranty only applies to the unit under normal operation without any damage or misuse/abuse.
- 9.4 The shipping costs incurred by repair or replacement for the unit under warranty will be shared by both parties.