



Precision Rated Optics

Work with a PRO!

PM-204A/B

Power Meter



Operation Guide

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1. Introduction

The PM 200 series of Power Meters are both rugged and refined. Operating in all commonly used wavelengths, these well-engineered units have been designed to function in laboratories, LANs, WANs and CATV environments, as well as long-distance optical networks.

The PM 200 series, used in conjunction with our Stabilized Light Sources, allows the user to identify optical fiber, measure optical attenuation, verify continuity and evaluate fiber link transmission quality. The Auto- Wavelength Recognition eliminates the need for communication between technicians and reduces the potential for error.

Sold, serviced and supported in the USA, the PM 200 series comes with a standard 3-Year manufacturer warranty as well as all standard connectors, AC/DC charger and carrying case.

2. Warranty

Three Years Limited Warranty

Products are warranted against the defective components and workmanship for a period of three years from the date of delivery to the original customer. Any product found to be defective within the warranty period would be returned to authorized service center for repair, replacement and calibration.

Exclusions

The warranty on your equipment shall not apply to defects resulting from the following:

- Unauthorized repair or modification including battery replacement
- Misuse
- Negligence
- Accident

Returning Product

To return product, you may contact PRO to obtain additional information if necessary. To serve you better, please specify the reasons for the return. All delivery and mails should be sent to the following address:

9999 Hamilton Blvd Breinigsville, PA 18031

3. Safety Information

Warning

- Never look directly into optical outputs or a fiber while the equipment is on. Invisible and visible laser beam may damage your eyes.
- Do not short-circuit the terminal of AC adapter I charger and the batteries. Excessive electrical current may cause personal injury due to fumes, electric shock or equipment damage.
- Connect AC power cord with the equipment and wall socket properly. While inserting the AC plug, make sure there is no dust or dirt on the terminals and both plugs are fully seated. Incomplete engagement may cause fuming, electric shock or equipment damage and may result in personal injury.
- Do not operate the equipment near hot objects, in hot environments, in dusty/ humid atmosphere or when condensation is present on the equipment. This may result in electric shock, product malfunction or poor performance.

4. Preparing for Operation

4.1. Unpacking the instrument

Packing material

We suggest that you keep the original packing material. Using the original packing material is your guarantee of protecting the instrument during transit.

Standard Accessories:

Power Meter, FC/PC, SC/PC, ST/PC Interchangeable Connectors, NiMH Batteries (x2), Built-in 2.5mm Universal Adaptor, Manual, Software (CD), USB Cable, Worldwide Compatible AC/DC Power Adaptor, Test Report, Carrying Case

Checking for damage in transit

After unpacking the instrument, check to see whether it was damaged in transit. This is particularly likely if the outer casing is clearly damaged. If there is damage, do not attempt to operate the instrument or to repair it without authorization. Doing so can cause further damage and you may lose your warranty qualification.

4.2. Discharged batteries

There is a battery indicator on the screen to show the remaining charge. There are four possibilities the indicator may show, full, with 2 blacks, with 1 black and empty. If an empty battery indicator flashes it means the power is almost out, and that is when you should recharge the batteries by connect the AC adapter with the instrument. If the discharged batteries get to their limitations after long-time use, please replace it with a new one. To replace the batteries, please remove the battery plate on the back of instrument with a screwdriver.



When the battery charge is extremely low to supply the necessary power, the instrument will automatically switch off.

Note:

- 1) The AC indicator is not displayed when power is supplied by battery.
- 2) To eliminate the possibility of acid leakage, please take out the battery if the unit is not used for a long time.

4.3. AC operation

If the instrument is mainly used at one location, e.g. in a laboratory or test department, the AC adapter can be used to power it instead of batteries. There is a DC input jack on the bottom of the PM-204A/B instrument casing into which the output cable of the AC adapter is plugged. And when the AC adapter is plugged in, the AC indicator on the LCD will be displayed.

Note:







- 1) Power is supplied by the AC adapter even if battery is fitted. And the battery indicator is not displayed on the screen when AC adapter is plugged.
- 2) Make sure that the operating voltage of the AC Adapter I Charger is the same as the local AC line voltage.

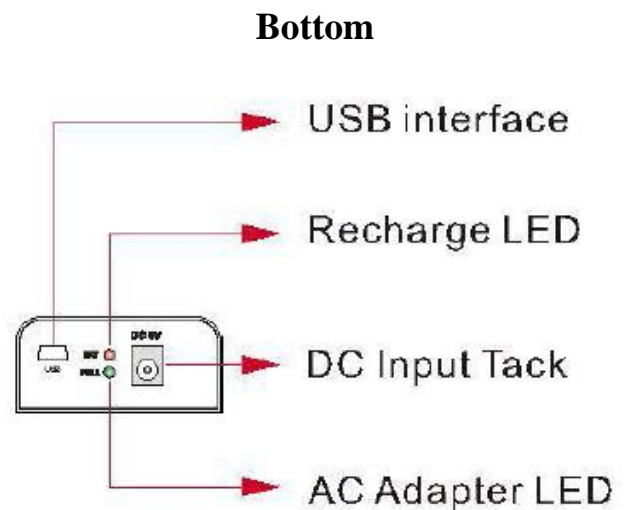
5. Operation

5.1. Display and controls

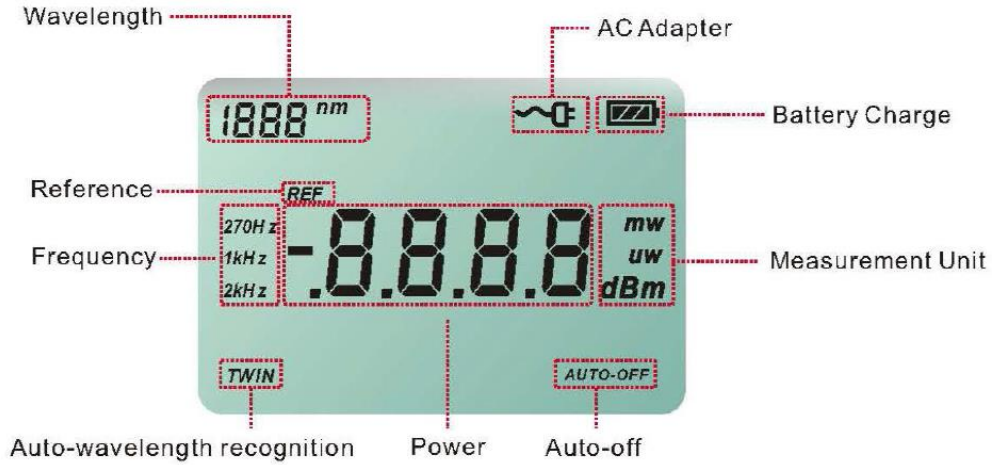
5.1.1. Keypad

The PM-204A/B keypad is used to access a wide range of instrument functions.

Key	Function
	Switches instrument on I off. Long keypress while powering on to activate the instrument without Auto-off function.
	Selects measurement wavelength in sequence of 8501130011310114901155011625nm and to activate auto-wavelength recognition (TWIN).
	Switches measurement unit among dBm, dB and mw.
	Long keypress for 2s to store the current test value; short keypress to display the record.
	Short keypress to display reference level of present test wavelength. Long keypress to set a new reference level of present test wavelength.
	Switches backlighting on I off.



5.1.2. LCD



5.2. Turning the instrument on and off

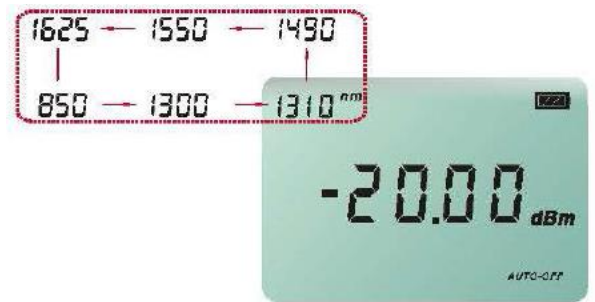
- 1) Press the "ON/OFF" key briefly.
- 2) The instrument powers on and backlighting switches on.
- 3) Please check the battery capacity if it fails.
- 4) Press the "ON/OFF" key briefly again.
- 5) The instrument powers off and backlighting switches off.

Note: Auto-off function

- 1) The instrument powers off automatically if no keypress in 10 minutes.
- 2) Press the "ON/OFF" key for about 2 seconds to power on the instrument with "Auto-off" function deactivated.

5.3. Setting the wavelength & Activate the Auto-wavelength Recognition (TWIN)

Press the "λ" key repeatedly until the desired wavelength is displayed. You can select from six possible wavelengths: 850nm, 1300nm, 1310nm, 1490nm, 1550nm, 1625nm. The instrument defaults to the wavelength which the user set in the last test.



When used with the PM-204 Series optical laser source, the wavelength will shift automatically according to the output wavelength of the laser source. Long keypress [λ] is to activate the auto-wavelength recognition and the "TWIN" will show on the LCD. Short keypress [λ] is to close the "TWIN".



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