



OPTICAL INSTRUMENTS SERIES

User's Guide to the PM-102A/ VFL

Power meter



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Power meter

1 Description



PM-102A/VFL series testing meter is a collection of the power meter and Visual laser source. As the power meter, it can precisely test the 850nm,1300nm, 1310nm,1490nm,1550nm,1625nm wavelength's power and it can also test the loss of the fiber, cable, various passive devices, when to attach the FHS laser source; As the Visual laser source, it can check the fiber, cable, and connector whether there is a breakpoint. It is widely used in communication system.

Features

- Hand-held, convenient to hold
- Small power consumption
- Two interface, can use the power meter and visual laser source at the same time
- Visual laser source can output the 2Hz and CW
- Various power unit display
- The range of the power meter can adjust automatically
- LCD display and back light function
- Low power automatically shut down
- 10min, no operation shut down automatically
- Rechargeable



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, or accident

Returning Product

To return product, you may contact us 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:

*Precision Rated Optics
1450 Greenwich St. Suite #303
San Francisco CA 94109
Phone number: 415-738-3476*

Safety Information

Warnings!

- Never look directly into optical outputs or a fiber while the equipment is on. Invisible laser beam may damage your eyes.
- Do not short-circuit the terminal of AC adapter / charger and the batteries. Excessive electrical current may cause personal injury due to fumes, electric shock or equipment damage.
- Connect DC power cord with the equipment and wall socket properly. While inserting the DC 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.

Preparing for Operation

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.

Checking the package contents

The standard accessories of PM-102A/ VFL are as follows:

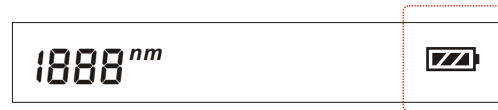
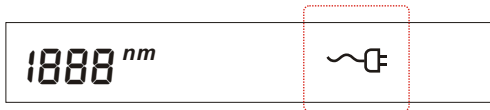
- Main unit(including battery)
- Quality Check Report
- DC 5V Adapter
- Carrying Case
- User's Guide

Checking for damage in transit

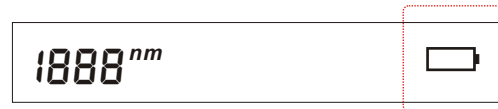
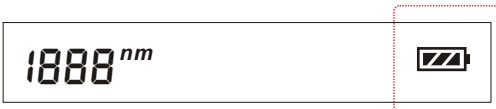
After unpacking the instrument, check to see whether it was damaged in transit. This is particularly likely if the outer casing is clearly damaged. If there is damage, do not attempt to operate the instrument or to repair it without authorization. Doing so can cause further damage and you may lose your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

2 Power Supply

There are battery indicator and power plug on the screen to show the power supply. When you do not connect the DC 5v charger, the adapter indicator will disappear on the screen.

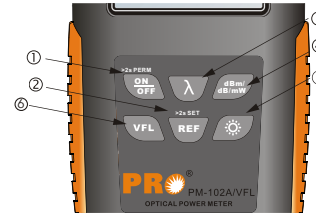








When you use the battery, the battery indicator on the screen will show the remaining charge. An empty battery indicator means the power is almost out. When the battery charge is extremely low to supply the necessary power, the instrument will automatically switch off . Please change the battery or recharge it



Operation Display and controls

Font(Panel Board)



No.	Key	Function
1		Switch instrument on/off. Long key press while powering on to activate the instrument without Auto-off function.
2		Set/display relative value, long press to set, short press to display.
3		Selects measurement wavelength
4		Switches measurement unit among dBm,dB,mw
5		Switch back lighting on/off
6		Visual laser source switches ON/OFF,CW,2Hz

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VLS output

Power meter input



Recharge indicator

USB power interface

Technical parameters

Series NO		PM-102A/VFL
Power meter	Range(dBm)	-60~+10@1550nm
	Resolution(dB)	0.01
	Detector	InGaAs
	Spectrum width	3nm typical value
	Wavelength (nm)	800~1700
	Accuracy ^①	±0.35dB±1nW
Visual Laser source	Emitter type	CLASS IIIA
	Output wavelength(nm)	650±10nm
	Modulation	2Hz/CW
	Output power(mw)	7mW
Adaptor		FC/PC
Operating Time (Hour)		>160 (Standard)
Power		Rechargeable Li-ion battery 3.6V/DC 5V/500mA(USB adaptor)

NOTE: Valid at 1550nm,CW,23℃±3℃, relative humidity≤70%, FC adaptor

Work temperature	-10°C~+50°C
Storage temperature	-20°C~+70°C
Work humidity	<90% RH
Dimensions	115*62*30(L*W*H)
Net weight	140g

Maintenance

- ➔ Please disconnect the DC adapter/charger and cover the protective dust cap once you finish using.
- ➔ It is a good idea to clean the connector and the instrument when they get dirty through use. Optical cleaning pads and anhydrous alcohol is recommended. And please be careful not to get the detergent inside the instrument.
- ➔ To ensure the measurement accuracy, please send the instrument to our Service Center for calibration once a year.