Precision Rated Optics

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PM-501X-VFL

Power Meter & Visual Fault Locator

Operation Guide

V.12.29.17

Description

The new designed optical tester which combined power meter and VFL in one tester, VFL output power can be adjusted.

Features

- OPM and VFL two in one function
- VFL output power can be adjusted
- Operator easy
- Very useful for FTTH

Specifications

Optical Power Meter Module		
Detector Type	InGaAs	
Measurement Range(dBm)	-70~+6	-50~+26
Uncertainty	5%	
Calibrated wavelengths(nm)	850,1300,1310,1490,1550,1625	
Resolution(dB)	0.01	
Optical Connector	FC/SC/2.5mm universal, for LC we provide FC-LC Hybrid adaptor	
Visual Fault Locator		
Wavelength(nm)	650±10	
Out-put power(mW)	Can be adjusted at 1mW, 5mW, 10mW	
Uncertainty	±0.3	
General Specifications		
Power Supply	Alkaline Battery(3 AA 1.5V batteries)	
Auto-off time	10mins	
Operating Temperature(℃)	-10~+60	
Storage Temperature(℃)	-25~+70	
Dimension(mm)	200 X90 X50	

Standard packages

Power Meter +VFL, Manual, 1.5V AA Battery(3), Cotton Swabs

Panel and Operation

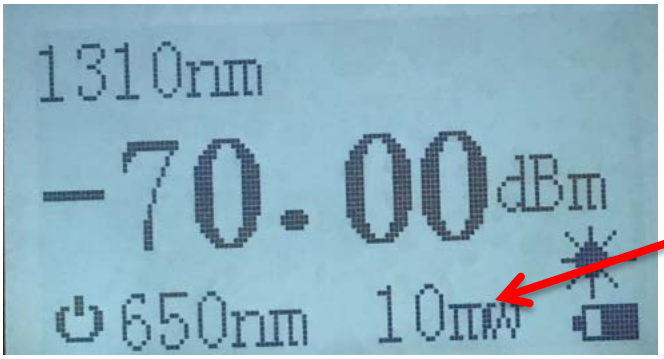
Power On/Off

- Pressing “ ⏻ ey turns on the unit.
- Pressing “ ⏻ ey for few seconds to activate or deactivate auto-off function, under auto-off model, the unit will be power off automatically after 10 minutes idle time. When auto-off is not activated, the unit will be not power off automatically.
- Pressing “ ⏻ ey for a longer seconds to turn off the unit.

Wavelength shift, VFL and Optical Power Measurements

Pressing “Laser” keypad to open or close 650nm VFL, when VFL is activated, 650nm will display on the LCD and the user that cannot perform optical power measurements.

Pressing Mode to adjust the output power of VFL. The default output power is 10mW, and can be adjusted 1mW, 5mW.



Output power for the VFL

Pressing “λ” to shift wavelength of optical power meter measurement.

Pressing “UNIT” to shift units between dBm and mw.

Pressing “REF” for short time to shift between dB and dBm.

Pressing “REF” for a longer time to set the current optical power value as a reference.

To avoid risk of eye damage, DO NOT look into the interface when VFL is activated.

Normal Maintenance

It is important to keep all optical connectors and surfaces free from oil, dirt, or other contamination to ensure proper operation.

Keep using one type of Optical Adapter to avoid excess loss from different connectors.

Please use dust-proof cap for protection to avoid being scratched or contaminated when not in operation.

Light interface is sensitive, please carefully plug in and pull out connectors.

Remove the batteries when the battery power become weak or when the unit is not in use for extended periods. This will prevent damage to the power meter from battery leakage at such times.

Notes: Please use lens paper with cleaning liquid for sensor's surface cleaning, do it in clockwise direction carefully.

Trouble-shooting

Description	Probable cause	Method
Faint LCD display	Battery is inadequate	Change battery
Switch on but no display	Battery is inadequate /Others	Switch on again/Change battery
Insensitive display in LCD	Light interface is polluted or broken/Display locked	Check light interface carefully and clean sensor's interface

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