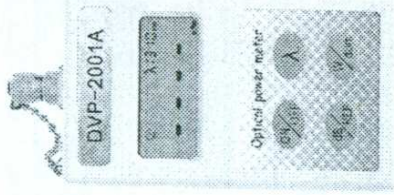


DVP Series

Fiber Optical Power Meter

Operations Manual



NETWORKING-TEAM

Camino Maldonado 6039
Montevideo-Uruguay
Tel: 2511 1514
Info@networking-team.com



**NETWORKING
TEAM**

WWW.NETWORKING-TEAM.COM

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General

Thank you for purchasing a DVP Series Fiber Optical Power Meter. These lightweight hand held units are precision meters designed to meet many testing applications. DVP Series Fiber Optical Power Meters have calibrated wavelengths at 850, 980, 1300, 1310, 1480, 1550, 1625nm. Model DVP can measure absolute power in dBm and microwatts (pW, nW, uW, mW) along with attenuation (relative power) as dB. DVP provides the same functions, except that it performs linear measurements on the milliwatt (mW) scale, instead of microwatts. All models have the ability to store the currently displayed dBm power level reading as a reference for subsequent measurements.

Features

- +3 to -70dBm range
- +23 to -50dBm range
- +30 to -40dBm range

- Calibrated wavelength at 850, 980, 1300, 1310, 1480, 1550 and 1625nm.
- Measurements in dBm, dB, and microwatts
- >60 hours of battery life

Application

- fiber loss testing
- fiber building, opening, inspecting and maintaing
- fiber two-way testing
- fiber system experiment and test
- CATV system testing
- optical transmitter adjustable testing

Precautions

Use care when working with any optical transmission Equipment. Avoid looking directly at any optical fibers or optical sources. Refer to your company' s safety procedures when working with optical systems and components. It is im portant to keep all optical connections and surfaces free from dirt, oil or other connection to ensure proper operation. This applies to all connectors that are connected to unit' s optical port.




Scratched or contaminated connectors can reduce system

performance. Refer to your company practices for cleaning optical connectors.

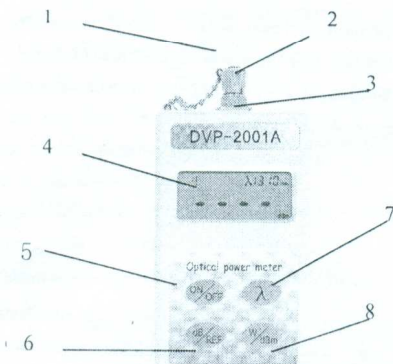
LCD Display

When the Fiber Optical Power Meter is first turned on, segments of the LCD display are activated approximately 2 seconds. The display will illuminate all LCD segments and enunciators which include :

display as below

- low battery
- auto power off
- Zero.....calibration Zero
- pW, nW, uW, mW,absolute power unit
- dBm.....relative power unit
- dBrelative measure
- no optical power

Operating Control



- | | |
|----------------------|--------------------|
| 1. dust cap | 2. FC adapter |
| 3. universal adapter | 4. LCD |
| 5. ON/OFF | 6. Relativity test |
| 7. wavelengths | 8. power unit |

NOTE: DVP Series Power Meter share the same features and controls. The units differ in dynamic range and calibrated wavelengths only. The front panel is identical for all units.

1. ON/OFF Key

When pressing the ON/OFF key once, the unit powers on and will perform a display test by turning on all LCD segments for approximately 2 seconds. DVP Series powers up with auto power off enabled as indicated by the hourglass annunciator.

If no keys are pressed for 8 minutes the unit automatically powers off to conserve battery life.

2. λ Key

Press this key to toggle through the available wavelengths (850, 980, 1300, 1310, 1480, 1550 and 1625nm)

3. dB/REF key

Pressing the dB/REF key momentarily will display the current dB reference power level. Pressing dB/REF will store the current dB reference level, and the mode will change to dB.

4. W/dBm key

Pressing w/REF key to toggle the power units between pW, nW, uW, mW or dB.

5. Auto-power off

pressing dB/REF and W/dBm keys at the same time, anncel or activate auto power off function.

Note: Clean all optical ports and connectors, According to your company' s procedures, prior to preforming any tests.

Maintenance

DVP Series Power Meter require no periodic maintenance other than replacing the batteries and annual calibration.

Battery Replacement

Under notmal use the two AA alkaline batteries should Provide greater than 60 hours of continuous use. To replace the batteries, place the unit with its back facing up. remove the battery cover . Install the new batteries and reinstall the battery cover. when low battery symbole is display , you should ask to replace the battery.

General Care

To avoild damage to DVP Series Powers, do not use cable connectors that are dirty or faulty. A dust cap is provided for the optical port, and should be in place when the unit is not in use to prevent foreign material from entering the port.

To clean the optical connector, use only a small diameter non-cotton swab lightly moistened with pure isopropyl alcohol. Be sure to follow your company' s procedures if different. Clean DVP Series Power' s body with a damp cloth. Do not usesolvents or abrasives.

Warranty Information

DVP-2001/2002 products are warranted against defects in material and workmanship for a period of one year from the date of shipment. Any such instrument found to be defective during the warranty period may be returned, transportation prepaid, to the factory for repair without charge. This warranty does not apply to instruments that have benn repaired or altered by an unauthorized person, or with have be subject to misuse, negligence, or accident, or to instruments on which the Model/Serial Number label is broken.

Batteries:

Batteries may contain lead, cadmium, lithium or other toxic substances. Batteries must be disposed of, or recycled, in accordance with their label instructions and local regulation.

Specifications:

Detector Type : InGaAs

Range: -50dBm to +23dBm

Wavelengths:

850, 980, 1300, 1310, 1480, 1550, 1625nm

Accuracy: $\pm 5\%$

Display interface: λ , mW, nW, μ W, Pw, dBm, dB

Working interface: universal interface

Power supply: $2 \times AA (>60H)$

Working Environment: -20 to +55°C 0% to 95%RH

Storage Environment: -40 to +70°C 0% to 95%RH

Size: 62mm \times 22mm \times 110mm

Weight: 0.1Kg