JW3235 Mini VFL Power Meter

1.Overview

JW3235series optical power meter is a high precision, mini type optical fiber engineering application instrument.

2. Product Features

①High precision，low error，large dynamic range ②Mini type ergonomic design，single hand operation， flexible and convenient to use.

③OLED HD full view display screen

④2.5mm Universal adapter

⑤Wavelength memory function

⑥micro-USB power supply

⑦Auto power-off，energy-saving

⑧6 calibrated wavelength

⑨Support lanyard，falling/losing-proof ⑩Support dBm, dB，mW unit switching

3.Application Range

①Optical fiber CATV network

②Optical fiber communication engineering

③Research on optical fiber sensing

④Optical devices manufacturing

4. Specifications

Model	JW3235A	JW3235C
Wavelength Range（nm）	850~1700	
Detector Type	InGaAs	
VFL	10mW	
Measurement Rang（dBm）	-70~+6	-50~+26
Uncertainty（dB）	±0.3	
Calibrated Wavelength（nm ）	850,1300,1310,1490,1550,1625	
Display Resolution（dB）	0.05	
Operating Temperature（℃）	-10~+60	
Storage Temperature（℃）	-25~+70	
Auto-off Time（min）	10	
Battery Operating Time（h）	≥130	
Power Supply	3*AA 1.5V/micro USB	
Weigh（g）	70 (without battery)	

Dimensions (mm)	128x52x22

Note:

①Wavelength range: specify a standard operating wavelength range from λmin to λmax, and the optical power meter designed in this wavelength range work s well within specified parameters.

②Power measurement range: the range of the maximum optical power can be measured according to the specified index.

③Uncertainty:The error between the measured results of a certain optical power and the standard optical power test results.

5. Technical Index

①JW3235Mini type optical power meter----------------------------------1pc

②User manual--1pc

③No.7 1.5V AA batteries--3pcs

④Certificate--1pc

6.Function Description

6.1 Components Guide

6.2 Function

Description ①OLED display screen

JW3235Mini type optical power meter

OLED shows the measured optical power value , displays in the form of dB,dBm,mW,uW,nW ; Wavelength set as 850nm、1300nm、1310nm、1490nm、1550nm、1625nm ; Current working status of optical power meter.

②⏻ **key**

Press key until OLED shows to start the JW3234.Long press the button,then the the tester will be shut down (must be operated after boot more than 1 second)

③**λ key**

Λ Wavelength optional key ， press the button then choose different wavelengths 850nm 、 1300nm、1310nm、1490nm、1550nm、1625nm.The data will be displayed on OLED. ④**Fn key**

The units of the optical power meter can be switched by this key. dBm/dB/mW.

⑤**Ref Key**

Measuring the relative value of optical power meter under the set wavelength.

7.Instructions

7.1 Power on/off

①Press the key ⏻ on surface panel, the screen displays JOINWIT, and boot is completed. Release the button, then enter the optical power measurement interface directly.

②Long press the key ⏻ on the dashboard, the screen is not displayed, optical power meter off.

7.2 Absolute optical power measurement

①Turn on the optical power meter.

②set the measuring wavelength, measuring wavelength by λ key. The default setting is 1310nm.

③Accessed by metering,and the the current measurement value is displayed , including the linearity and non-linearity of the absolute value. **7.3Relative value measurement**

①Select the wavelength to be measured.

②Under "absolute power measurement mode",connect the light to be measured.

③Press"Ref " key , then current power value is stored in dB unit. At the same time it displays the current absolute power value and current relative value is 0dB.

④Connect another beam of light to be tested,the relative power value and absolute power meter of the current measured light will be displayed.

7.4 Special function

JW3235 has 3 kinds of working mode

1：Factory Mode

2：User Mode

3：Working Mode(be in working mode always)

①Factory Mode

The factory is responsible for the test and calibration.

②User Mode

Press **Fn+Ref** key synchronously , then enter the user mode , the symbol"△"will be displayed in the lower left corner. Press **Fn+Ref** key synchronously once again , then it exits from user mode and enter the working mode. The symbol "△"in the lower left corner disappears.

Under user mode , access light of different wavelength and press λ key to select current wavelength. Press **Fn** key , the current wavelength will be calibrated. The calibration is completed if the value on the screen is -10dBm.

Notes: If any errors or mistakes caused by the user self-calibration operation, please calibrate it again under the user mode.

③**Auto-off :** Press ⏻**key** to turn on the auto-off function. The auto-off symbol will be displayed on the screen. The unit will be turn off automatically after 10 minutes without operation.

8.Maintenance

①It is important to keep all optical connectors and surfaces free from oil and dust.

②Please use dust-proof cap to avoid scratching or contaminating when JW3235is not in operation.

③Light interface is sensitive, please carefully plug in and pull out the connectors.

④Please use clean cotton to clean the sensor surface, clean it in clockwise direction carefully.

⑤If does not need to use for a long time, please take out the battery.

9 . Troubleshooting

Fault	Reason	Solution
Faint LCD display	Bettery is weak	Change the battery
No display after turning on the unit	Battery is weak or other reasons	Turn on the unit again or change the battery
Insensitive display in LCD	Light interface is polluted/broken/Display locked	Check connector carefully and clean sensor's interface