User Manual for Multifunctional Fiber Optic Identification Instrument

Product brief

The multifunctional fiber optic identification instrument is an essential tool for fiber optic transmission maintenance and testing, used for non-destructive fiber optic identification work, and can detect at any position of single-mode and multi-mode fibers; Specially designed to increase the functionality of optical power meter, red light source testing fiber optic cable for lighting and illumination.

During maintenance, installation, and wiring, it is often necessary to find and separate without interrupting workA specific fiber is modulated with a 1310nm or 1550nm band at one end (270Hz,A signal of 1KHz, 2KHz is emitted into the optical fiber and identified on the line using a recognizer. It can also beTo indicate the direction of business; The Optical power meter is specially designed with backlight display and automatic shutdown of the selector switchFunction, ultra wide optical power testing range, precise testing accuracy, and user self calibration functionDesigned with a universal interface, memorized wavelength parameters after shutdown, and automatically shut down after 10 minutes in standby mode,The linear indicator (mW) and nonlinear indicator (dBm) are displayed on the same screen simultaneously.

Product Features

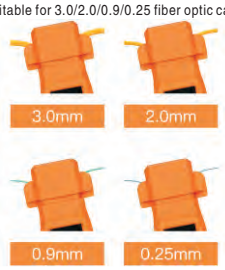
1. Digital display of relative power;
2. There is no need to interrupt the light source during online testing;
3. Identify modulation signals of 270Hz, 1KHz, and 2KHz;
4. Operation method: simple, fast, and convenient;
5. The battery level display function allows for clear battery status at any time;
6. Four in one universal fixture, no need to replace the fixture for online testing,Ensure no damage to the optical fiber

inventory

Multifunctional fiber optic recognition instrument	1PCS
Nylon hard bag	1PCS
Charging line	1PCS
Hanging rope	1PCS
Product manual and certificate of conformity	1PCS

Four in one universal fixture

Suitable for 3.0/2.0/0.9/0.25 fiber optic cables



instructions

1. Power/MOD on status, long press the button to turn off. Short press the button to turn on and open the device while it is turned offThe timeout automatic shutdown function will be turned off by long pressing the button to turn on the device while it is turned off.Short press to switch the current mode, and the mode will cycle to: Direction measurement –>Optical power measurement –> Save recordBrowse –>go to Direction Measurement.
2. Short press the VFL/LED button to switch between red light source on/flashing/off, default to always on,The flashing frequency is 2z. Press and hold the button to turn on or off the LED lighting.
3. Short press the dB/SAVE button to perform relative optical power at the set wavelength and EF reference valueMeasure, short press again to exit relative measurement. On the optical power measurement interface, long press the button to save whenPrevious measurement values. Long press the SAVE button on the record browsing interface to clear and save records. In the field of power calibrationPress and hold the button to save and exit.
4. Short press the wavelength/REF button to switch wavelengths, long press the button to set the current power value to relativeReference value for power dB.
5. Type-C charging port, the indicator light flashes during charging and remains on after being fully charged.

Special Features

1. Combination button, press and hold the power button and wavelength input button simultaneously for 2 seconds when turned off, and enter after turning onCalibration function interface, the REF button increases by 0.1dB, and the dB button decreases by 0.1dB. Short press SAVEPress the button to save and exit.
2. Special buttons, in the calibration interface, the MOD button has a+function and the VFL button has a – function.
3. Special buttons, in the browsing history saving interface, the dB button is the previous function, and the wavelength input button isThe next function.

Absolute optical power measurement

1. Enter the Optical power meter function.
2. Set the measurement wavelength by λ Select the measurement wavelength with the key, and the default setting is 1310nm.
3. Connected to the measured light, the screen displays the current measurement value, including the linear sum of absolute powerNonlinear values.

Relative optical power measurement

1. Set the measurement wavelength.
2. In the absolute optical power measurement mode, connect the measurement light and measure the current power value.
3. Press the db key, and the current optical power value becomes the current reference value (in dBm).
4. Connect another measuring light and display the absolute optical power value and relative power of the current measuring lightOptical power value.

Technical Parameter

Type	parameter
wavelength range	800–1700nm
Signal recognition type	CW,270Hz ± 5%,1kHz ± 5%2kHz ± 5%
Detector Type	ϕ 1mm InGaAs 2 pcs
Adapted fiber type	currency ϕ 0.25/ ϕ 0.9 (for bare fibers); ϕ 2.0, ϕ 3.0 (for tail fiber)
signal direction	LED indicator light for left and right direction indication
signal frequency range	270Hz,1kHz,2kHz
Measuring range of Optical power meter	–70 ~ +10dbm/–50 ~ +26dbm
probe Type	InGaAs
wavelength range	850 ~ 1650nm
Standard wavelength (nm)	850、980、1270、1300、1310、1490、1550、1577、1625、1650
display resolution	Linear display: 0.1% Logarithmic display: 0.01dBm
Working temperature (℃)	–10 ~ +60℃
Storage temperature (℃)	–25 ~ +70℃
Automatic shutdown time (min)	10 minutes
Visual Fault Locator Test distance	10–30mK M
Red light source output wavelength	650nm
Overall dimensions (mm)	167 × 47 × 28
Power Supply	Rechargeable lithium battery (3.7v 400mAh)