NK412 Optical Fiber Identifier

Product overview

The Optical Fiber Identifier instrument uses macro bending technology to carry out nondestructive test on the line, Signal direction and approximate power can be detected at any position of SM/MM fibers. Avoid line interruption caused by misoperation.

Macrobending measurement: The weak optical signal is exposed when the optical fiber is bent, The direction and intensity of the optical signal are detected by judging the direction and intensity of the leakage. No damage to optical fiber and no interruption of communication, It can directly detect 0.25mm bare optical fiber, 0.9mm tight sleeve optical fiber and 3mm jumper.

VFL: The recognizer can be equipped with 10mW VFL to find the fault point of 10km (laboratory value) line.

OPM: It can be equipp with 10 standard wave power meters, used to test the optical power value of the measured optical fiber.

Low battery monitoring: When the battery is low, yellow or red prompt will be sent to remind the user to replace the battery to avoid interruption of use.

Product features

- No need to cut off the optical fiber ,can effectively identify the direction and frequency
- With the "one touch" operation mode, the operation is simple and convenient
- Universal fixture, bare fiber, pigtail, etc. no need to replace the adapter
- Support OPM function， Multiple wavelengths are available
- Identify three common signal, 2kHz/1kHz/ 270Hz, beep prompt during recognition
- Using No. 9 dry battery, Low power consumption, Small volume, Easy to carry
- LED indicator is simple and clear
- High transmittance VFL, Easily penetrate long-distance optical fiber, find the fault point

HD code breaking screen display
More delicate display effect

Single chip control
Multi-functional combination

Highlight LED lighting
Easy to deal with dark environments

9 dry cell
Low power consumption
Easy to carry

Environmental adaptability
-10℃~+50℃

NK412 Technical specifications

Optical fiber identifier		
Identify wavelength range	800～1700nm	
Detector type	InGaAs	
Applicable fiber type	Diameter 0.25mm/0.9mm/2mm/3mm	
Modulation frequency	CW/270Hz/1kHz/2kHz	
Signal direction indication	Left and right LED direction indicators	
Signal direction detection range	-25～+10dBm(1310nm)	
	-30～+10dBm(1550nm)	
Signal power detection range	-30～+10dBm	
Signal frequency indication	270Hz/1kHz/2kHz	
Optical fiber direction recognition	Possess	
Power measurement	Possess	
Frequency detection range (average power)	Φ0.9, Φ2.0, Φ3.0	-30～0dBm(270Hz/1kHz)
		-25～0dBm(2kHz)
	Φ0.25	-25～0dBm(270Hz/1kHz)
		-20～0dBm(2kHz)
Insertion Loss (Typ.)	0.8dB(1310nm)	
	2.5dB(1550nm)	
VFL(Optional)		
Wavelength	650nm±10nm	
Output power	10mW	
Optical fiber interface	Universal joint	
Output mode	CW/1Hz	
OPM(Optional)		
Wavelength range	800~1700nm	800~1700nm
Connector	Universal jointFC/SC/ST	Universal jointFC/SC/ST
Detector type	InGaAs	InGaAs
Power measurement range	-70dBm~+6dBm	-50dBm~+26dBm
Uncertainty	±5%	
Calibration wavelength	850/980/1270/1300/1310/1490/1550/1570/1625/1650nm	
Display resolution	Logarithmic display:0.1dBm	
Identifiable frequency	CW、270Hz、1kHz、2kHz	
Others		
Power supply	Alkaline battery, 9V, non rechargeable	
Battery working time	10h	
Working temperature	-10°C～+50°C	
Storage temperature	-40°C～+70°C	
Relative humidity	0～95%RH No condensation	
Size	220mm×48mm×40mm	
Weight	200g	

Ordering Information

NK412-A-B

A	B
OPM Range: 5:-50dBm~+26dBm 7:-70dBm~+6dBm	VFL Power Range: 0:None 1:10mW

Configuration list

No.	Name	Quantity	Remarks
1	Host	1	
2	User's Manual	1	
3	Battery	1	
4	Qualification Certificate/ Service Guarantee Card	1	