

NK501 PON Optical Power Meter

Product overview



NK501 PON optical power meter integrates FTTx/PON power meter, Visual Fiber Location, RJ45 cable sequence, cable length and cable tracker test. It can test and judge the optical power value of voice, data and video signals at the same time, and can measure all PON signals and each wavelength separately. It is an ideal choice for PON network engineering, construction and maintenance. Different thresholds corresponding to different wavelengths can be set. PON power meter has the "Pass/Fail" optical fiber certification detection function, which ensures that the service provider can improve the system performance life by verifying the network connectivity, so that the engineering contractor has a high-level key authentication tool to provide reliable network engineering for customers.

Product features

TFT color screen, display delicate

Chinese/English display optional

Synchronous test and display of voice, data and video signal

Chinese/English display optional

1310/1490/1550nm in PON system can be measured

Burst mode test for 1310nm upstream wave

Pass/Fail threshold and calibration wave can be set

Support VFL/RJ45 sequence, length, tracker



High definition color LCD
Display effect more delicate



5 function integration
Meet diversified requirements



1000 data saved
Export to computer via data cable



4000mAh lithium battery
Portable battery charging



Environmental adaptability
-10°C~+50°C

NK501 Technical specifications

PON OPM			
Wavelength	1310±50nm	1490±15nm	1550±10nm
Isolation 1310nm	--	>40dB	>40dB
Isolation 1490nm	>40dB	--	>40dB
Isolation 1550nm	>40dB	>40dB	--
Measuring Range	-35~+10dBm	-40~+12dBm	-40~+25dBm
Uncertainty	≤0.5dB		
Insertion Loss	≤1.5dB		
Detector type	InGaAs		
Display Resolution	0.01dB		
Fiber type	SM 9/125μm		
Connector	FC/UPC (APC optional)		
VFL			
Wavelength	650nm ±20nm		
Output Power	≥10mW		
Mode	CW/1Hz/2Hz		
Connector	Universal joint FC/SC/ST		
RJ45 Cable Length			
Measuring Range	≤300m		
RJ45 Cable Sequence			
Measuring Range	≤300m		
RJ45 Cable Tracker			
Measuring Range	≤300m		
Others			
Display	3.5 inch Color LCD		
External storage	≤1000		
Data Interface	Micro USB		
Power Supply	Polymer Li-Battery: 3.7V, 4000mAh, Adapter: 5VDC, 2A		
Battery Life	Standby>20h; Measuring time>12h		
Operating Temperature	-10℃~+50℃		
Storage Temperature	-40℃~+70℃		
Relative Humidity	0~95%Non Condensing		
Size	173mm×82mm×37mm		
Weight	350g		
Functions: PON OPM/VFL/RJ45 Sequence/RJ45 Line Tracker(Additional purchase detector)/RJ45 Cable length/Flashlight			

Configuration list

NO.	Name	Quantity	Remarks
1	Host	1	including battery
2	Power adapter	1	
3	User's Manual	1	
4	FC / UPC to SC / UPC jumper	2	

NO.	Name	Quantity	Remarks
5	RJ45 Tracker	1	
6	Data Line	1	
7	Backpack	1	
8	Qualification Certificate/After-sales Service Guarantee Card	1	