

# NK502 PON Network State Tester

## Product overview



With the popularity of FTTH and the blowout development of optical network terminals, especially in the last one kilometer of FTTx, operators need to check the occupation of free resources on optical ports to reduce the waste of port resources. However, this kind of manual checking is extremely complicated, inefficient, and will bring huge trouble to users.

NK502 PON terminal state tester can intelligently check the resource state of optical network terminal and intelligently analyze the OLT and PON in PON network without maintenance personnel entering the user's home OLT status, integrated with PON OPM, VFL, RJ45 cable sequence/length and cable tracking, is an all-round helper in the field of current PON network maintenance and terminal resource inventory.

## Product features

- Intelligently check the occupation or idle state of optical network terminal
- Intelligently judge the status of the optical fiber cat: turned off, the end of the optical fiber is disconnected, and the optical fiber connector falls off
- The user-defined threshold value can be stored for testing
- Support PON optical power meter and VFL
- Pass/Fail threshold and calibration wave can be set
- Upload data via USB



320\*480 color LCD  
Display effect more delicate



6 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

## NK502 Technical specifications

## 10G PON Terminal state tester

PON terminal state detection	Online, broken fiber, terminal failure, large terminal loss, ONT no power, optical cat not inserted
Insert Loss	≤1.5dB
Connector	FC/UPC (APC optional)
1310nm(upstream)	-35dBm~+10dBm
1490nm(down)	-40dBm~+12dBm
1550nm(down)	-40dBm~+25dBm
Calibration wavelength	1310nm/1490nm/1550nm
Unit	m/μ/nW/dBm/dB(REF)
Power accuracy	±0.5dB
Power resolution	0.01dB
VFL	
Wavelength	650nm±20nm
Output power	≥10mW
Mode	CW/1Hz/2Hz
Connector	FC/SC/ST
RJ45 Cable length/ Sequence/Tracking	
Range	≤300m
Others	
Display	3.5 inches TFT LCD, 320*480
Interface	Micro USB
Storage	1000
Power supply	Li battery: 3.7V/4000mAh, Adapter: 5VDC/2A
Battery life	Standby>20h, Measure>12h
Working temperature	-10°C~+50°C
Storage temperature	-40°C~+70°C
Relative humidity	0~95%, No condensation
Dimensions	173mm×82mm×37mm
Weight	≤350g

## Configuration list

NO.	Name	Quantity	Remarks	NO.	Name	Quantity	Remarks
1	Host	1	including battery	5	RJ45 Tracker	1	
2	Power adapter	1		6	Data Line	1	
3	User's Manual	1		7	Backpack	1	
4	FC / UPC to SC / UPC jumper	2		8	Qualification Certificate/After-sales Service Guarantee Card	1	