NK6800PON series Optical Time Domain Reflectometer

Product overview

NK6800 series PON OTDR adopts 7-inch color screen, which makes the operation easier. It integrates 7 functions to help customers solve the communication link field test and later maintenance more effectively. The maximum dynamic range is 45dB. It can be penetrated through the max 1:32 splitter to effectively improve the performance in PON network test.

NK6800 series are mainly used to measure the length, loss and connection quality of optical fiber and cable. It is widely used in engineering construction, line maintenance test, emergency repair, development and production measurement of optical fiber and optical cable. It is mainly used in urban trunk line, backbone network and metropolitan area network.

Product features

- 0.8m event blind area, easy to test 5m jumper
- Support SM/MM/SM+MM test
- Detection of online test, automatic alarm with light
- Standard SOR file output format
- Batch processing of data, printing report forms
- Multi wavelengths simultaneous test
- Nomenclature in Chinese and English
- Key + touch screen dual operation mode
- Integrate OTDR/VFL/LS/OPM/Event Map/Loss Test/End Face Identifier

7 inch screen
Key + touch operation mode

Detection of online test
Caution function

Two languages input
Nomenclature in Chinese and English

Report printing
Files batch processing

Multi wavelength simultaneous test
Results automatic analysis

NK6800PON Technical specifications

PON OTDR							
Model	PD1	PS1	PS2	PT1	PT2	PT3	PT4
Wavelength	1310nm±20nm 1550nm±20nm	1625nm±20nm (Filtered)	1650nm±5nm (Filtered)	1310nm/1550nm±20nm 1625nm±20nm (Filtered)			1310/1550nm±20nm 1650±5nm (Filtered)
Filter	/	High pass>1595nm Isolation>40dB (1270nm~1585nm)	Bandpass1650nm±7nm Isolation>40dB (1650nm±10nm)	High pass>1595nm Isolation>40dB (1270nm~1585nm)			Bandpass1650nm±7nm Isolation>40dB (1650nm±10nm)
Fiber Type	G.652						
Max Dynamic Range	37/35dB	38dB	38dB	38/36/36dB	40/38/38dB	42/40/40dB	38/36/36dB
Event Blind Zone	1m	0.8m					
ATT Blind Zone	6m						
PON Blind Zone	30m						
Test Range	500m/1km/2km/4km/8km/16km/32km/64km/128km/256km						
Pulse Width	3ns/5ns/10ns/30ns/50ns/80ns/160ns/320ns/500ns/800ns/1000ns/3000ns/5000ns/8000ns/10000ns/20000ns						
Ranging accuracy	± (0.75m+ Sample interval +0.005%×Test distance)						
Loss accuracy	±0.05dB/dB						
Sample Points	16k~256k						
Sample Resolution	0.05m~16m						
Reflection Accuracy	±3dB						
File Format	SOR Standard File Format						
Loss Analysis	4-point method /5-point method						
Laser Safety Level	Class II						
Refresh Rate	3Hz (Typ.)						
Data Storage	Internal storage: 200,000curves; External storage: 4G bit						
Connector	FC/UPC (Interchangeable SC、ST)						
Data Interface	USB、Mini-USB、10M/100M Ethernet Port						
OPM							
Wavelength range	800nm~1700nm						
Connector	Universal FC/SC/ST						
Test scope	-50dBm~+26dBm						
Uncertainty	±5%						
Calibration wavelength	850nm/980nm/1300nm/1310nm/1490nm/1550nm/1625nm/1650nm						
LS							
Wavelength	Consistent with OTDR output wavelength						
Output power	⩾-5dBm						
Stability	CW, ±0.5dB/15min (Test after 15 minutes of preheating)						
Connector	FC/UPC (Interchangeable SC、ST)						
VFL							
Wavelength	650nm±20nm						
output power	⩾10mW						
Mode	CW/1Hz/2Hz						
Connector	FC/UPC (Interchangeable SC、ST)						
The Optical Loss Test index refers to the above light source and optical power meter index.							
Others							
Display	7 inches color LCD+Capacitive touch screen, 800×480						
Power supply	AC/DC adapter: Input: 100V~240V, 50/60Hz, 0.6A Output: 12V~19V, 1.5A, Lithium battery: 7.4V, 5200mAh						
working mperature	-10°C~+50°C						
Storage temperature	-40°C~+70°C						
relative humidity	0~95%, Non Condensing						
Weight	⩽1.2kg						
Size	227mm×160mm×70mm						
Functions of Host: OTDR/OPM/VFL/LS/Event Map/Fiber End Detection (Additional purchase detector) /Optical Loss Test							

Configuration list

NO.	Name	Quantity	Remarks
1	Host	1	
2	AC/DC power adapter	1	
3	U disk (containing analysis software/ User's Manual)	1	
4	Data line	1	
5	OTDR SC adapter	1	
6	OPM SC adapter	1	

NO.	Name	Quantity	Remarks
7	User's Manual	1	
8	Calibration certification	1	
9	Certificate/ Warranty card	1	
10	Clean cotton piece	10	
11	Leather knob	1	
12	Special backpack for instrument	1	