

NK6800 series Optical Time Domain Reflectometer

Product overview



NK6800 series high-performance 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 light 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
- Detection of online test, automatic alarm with light
- Batch processing of data, printing report forms
- Nomenclature in Chinese and English
- Integrate OTDR/VFL/LS/OPM/Event Map/Loss Test/End Face Identifier
- Support SM/MM/SM+MM test
- Standard SOR file output format
- Multi wavelengths simultaneous test
- Key + touch screen dual operation mode



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

OTDR Series

Basic Instrument Series

Modular Test Equipment

Fiber Health Monitor System

NK6800 Technical specifications

OTDR Series

Basic Instrument Series

Modular Test Equipment

Fiber Health Monitor System

OTDR															
Model	S1	S2	S3	S4	T1	T2	T3	T4	T5	T6	F1	M1	SM1	SM2	
Type	SM											MM	SM/MM		
Wavelength	1310/1550nm				1310nm /1490nm /1550nm		1310nm /1550nm /1625nm		1310nm /1550nm /1650nm		1310nm /1490nm /1550nm /1625nm		850nm /1300nm	850nm /1300nm /1310nm /1550nm	
MaxDynamicRange(dB)	35/33	38/36	42/40	45/43	32/30/30	37/35/35	32/30/30	37/35/35	32/30/30	37/35/35	37/35/35/33	26/28	26/28/35/33	26/28/37/35	
Event Blind Zone	1m	0.8m											1m		
ATT Blind zone	6m	6m											6m		
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 inch color LCD + touch screen														
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	