

OTDR PH300L SERIES

1310/1550nm (26/24dB)



DESCRIPTION

The PH300L Series OTDR is designed with a lightweight and user-friendly graphical user interface. PH300L Series OTDR offer accurate and complete fiber evaluation, which allows error-free testing with single button operation. It is cost effective, with high resolution and compact in size.

Suitable for installation, operation and maintenance of optical networks.

FEATURES

- 5-inch color LCD touchscreen
- 26/24dB dynamic range with 2.5m/8m deadzone
- 11-in-1 tool: Auto OTDR, Expert OTDR, OLE™ OPM, VFL, OLS, OLTS, RJ45 Cable Sequence Test, RJ45 Length Test, RJ45 Cable Tracking (optional), and Flashlight
- One-button screenshot feature
- Multi-language support
- Optical Link Explorer™ (OLE™) is used enabled to simplify analyzing

APPLICATIONS

- Real-time troubleshooting
- Access network testing
- LAN/WAN network testing
- CATV network testing
- Metro network testing

SPECIFICATIONS

Dynamic Range (dB)	26/24dB
Fiber Type	SMF
Wavelength (nm)	1310nm / 1550nm
Event Dead-zone (m)	2.5
Attenuation Dead-zone (m)	8
Distance Range	500m/1km/2km/4km/8km/16km/32km/64km/100km
Pulse Width	3ns~20us
Distance Accuracy	$\pm(1m+Test\ distance \times 5 \times 10^{-5}+Sampling\ resolution)$ (excluding IOR uncertainty)
Linearity (dB/dB)	$\pm 0.5d$
Sampling Points (k)	16 ~ 128
Sampling Resolution (m)	0.05 ~ 8
Loss Resolution (dB)	0.001
Distance Resolution (m)	0.001
Loss Threshold (dB)	0.20
IOR Setting	1.00000~2.00000
Reflectance Accuracy	$\pm 3dB$
File Format	SOR standard file format
Loss Test Mode	4-point/5-point method
Laser Safety Level	Class II
Optical Port	FC/UPC (SC, ST, APC polishing is optional)
Refresh Rate	3Hz(Typ.)
Display	5 inch TFT-LCD (touch screen)
Data Storage	8GB TF card
Data Interface	USB type C
Working Temperature (°C)	-10 ~+ 55
Storage Temperature (°C)	-40 ~+ 70
Humidity (%)	0~95 (Non-condensing)
Dimension (mm)	195 x 141 x 44
Weight (kg)	0.9kg (battery included)

Note : Specifications are subject to change without notice

OPTICAL POWER METER	
Wavelength Range (nm)	800 ~ 1700
Calibrated Wavelength (nm)	850nm/980nm/1300nm/1310nm/1490nm/1550nm/1625nm/1650nm
Measurement Range (dBm)	-70~+10dBm/-50~+26dBm
Resolution (dB)	±5%
Accuracy	±0.35dB ±1nW
Modulation	CW/270/330/1k/2kHz (Use inner LS)
Connector	Universal FC/SC/ST
OPTICAL LIGHT SOURCE	
Working Wavelength	1310nm/1550nm
Laser Type	FP-LD
Output Power	≥ -5dBm
Working Mode	CW/270Hz/330Hz/1kHz/2kHz
Stability	CW, ±0.5dB/15 min (after 15min of preheating)
Optical Port	FC/UPC (Interchangeable SC/ST)
VISUAL FAULT LOCATOR	
Working Wavelength	650nm±20nm
Output Power	≥10mw
Working Mode	CW/1Hz/2Hz
Optical Port	FC/UPC (Interchangeable SC/ST)
Laser Safety Level	Class III
OPTICAL LOSS TEST	
Working Wavelength	Same as LS
IL Test	Support
RJ45	
Test Distance (Cable Length)	≤300m
Test Standard (Cable Sequence)	T568A/T568B
RJ45 CABLE FINDER (OPTIONAL)	
Working Mode	Digital tracking
Distance	≤300m
Online/Line Pair Tracking	Support

Notes

1) Dynamic range is measured with 20us pulse width, averaging time is 180s, SNR=1.

2) Event dead-zone is measured with 3ns pulse width, return loss>-45dB

3) Attenuation dead-zone is measured with 3ns pulse width, return loss>-55dB

Note : Specifications are subject to change without notice

OTDR PH300L SERIES

1310/1550nm (26/24dB)



OPTICAL LINK EXPLORER™ (OLE™)

The OLE™ Test was developed using multiple pulse width acquisitions and advanced algorithms to characterize the fiber-under-test and display the events using iconic symbols.

FEATURES

- Complex OTDR results are displayed in easy-to-understand iconic symbols
- Easy to use, single button operation, automatic analysis and intuitive link map display
- Automatic multiple pulse width and wavelength acquisition
- Identify each event on the fiber, automatically including splicing points, macro bends, connectors and optical splitters.

STANDARD ACCESSORIES



ORDERING INFORMATION

Part No	Description
PH300L-D26SCU1	PH300L Series OTDR, 1310/1550nm (26/24dB), VFL, OLS, SC/UPC, OPM, OLE™, RJ-45