PHOTON KINETICS

8000 Production and Lab OTDR

Only OTDR designed specifically for optical fiber and cable developers and manufacturers

Features

Unrivaled Optical Performance

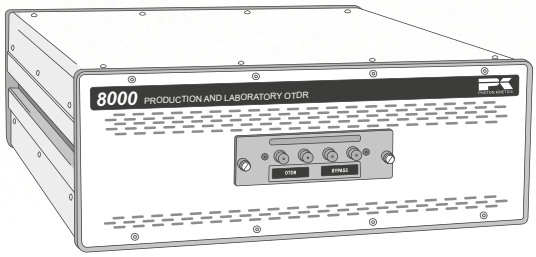
- High performance components combined with "performance-first" optical design results in the highest quality OTDR measurement results, acquired in the shortest possible time.
- Built-in optical switching simplifies bidirectional testing, integration with CD and PMD test systems.

Application-optimized Configurations

- 86000 Series for single-mode cable manufacturing provides optimal balance of dynamic range and dead zone performance for typical single-mode cables.
- 87000 Series for single-mode fiber manufacturing provides highest possible dynamic range, ideal resolution and high linearity for long-length spools.
- 88000 Series for manufacturers of both multimode fiber and cable providing uniform launch conditions.
- 81000 and 82000 Series for large diameter and low-cutoff fibers and the new 85000 Series designed for testing hollow-core fibers

Key Component of Automated Test Stations

- The 8000 OTDR is the cornerstone of PK's automated Full-Length and Finished Cable Stations, enabling maximum fiber and cable test productivity.



OTDR

Spectral Attenuation

Mode Field Diameter

Fiber Length

For more information contact
sales@pkinetics.com

Specifications

Measurement						
Standards and Methods Attenuation Atten. Uniformity Fiber Length	IEC 60793-1-40, OTDR Method IEC 62316, OTDR Method IEC 60793-1-22. OTDR					
Performance [1]	**81000**	**82000**	**85000**	**86000**	**87000**	**88000**
Minimum Dynamic Range (dB)	> 27	> 26	Contact Factory	> 27 (1310 nm) > 25 (1550 nm) > 22 (1625 nm)	> 36 (1310 nm) > 31 (1383 nm) > 35 (1550 nm) > 33 (1625 nm)	> 33 (850 nm) > 33 (1300 nm)
Maximum Dead Zone (m) Attenuation Event	 < 25 < 10	 < 6 < 4	Contact Factory	 < 50 < 25	 < 100 < 45	 < 20 < 8
Linearity (dB/dB)	< 0.025	< 0.05	Contact Factory	< 0.01		< 0.05
Distance Accuracy (m)	± (0.01% of measured length+ 2.5)					
Configurations	**81000**	**82000**	**85000**	**86000**	**87000**	**88000**
Compatible Fibers	Low cut-off (< 1100 nm)	IEC Type A2, A3 and A4	Hollow-core	IEC Type B	IEC Type B	IEC Type A1-OM1 to OM5
Wavelengths (nm) Standard Special [2]	 850	 850	 1300, 1550	 1310, 1383, 1490, 1550 and 1625 1200, 1240, 1530, 1570 and 1610		 850, 1300
Performance Options	Standard	Standard	Standard	Standard	Standard, HP, UHP, FLS [3]	Standard
Front Panel Ports [4]	Single	Single	Single	Single, Bidirectional (2-ports), Dual Bidirectional (4-ports), Bidirectional w/Bypass (4-port)		1xOM1, 1xOM2, 1xOM1+1xOM2, 2xOM1+2xOM2
Dual Configurations [5]	81000/87000	None	None	86000/88000	81000/87000	86000/88000

Notes:

1. *Exact performance specifications depend on the OTDR configuration (e.g., performance and front panel switching options), as well as data acquisition settings such as pulse width and averaging time. Contact PK Sales for more comprehensive information concerning the performance of a specific configuration.*
2. *Special wavelength lasers not normally stocked. Dependent on current availability. Contact PK Sales for other wavelengths.*
3. *High performance (HP). Ultra-high performance (UHP) and Full-Length Station performance (FLS). Dynamic range increase for each performance level is wavelength dependent, but is generally 2-3 dB. Other specifications remain the same as Standard.*
4. *8000 OTDRs have from 1 to 4 front panel ports depending on configuration.*
5. *Two OTDRs in a single mainframe, but with separate output ports. Share a common Station Interface, .*

CLASS 1
LASER PRODUCT

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Specifications subject to change without notice

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